APPENDIX A

Waste Volume and Type Data

Attachment A-1

Special Waste/ADC Volumes - Generators List

Advanced Disposal Services Glacier Ridge Landfill, LLC

Special Waste Tonnage by Category

January 1 through December 31, 2016

SAND		FLUFF		C-SOIL		ALL OTHER SPECIAL WASTE	
Category	Tons	Category	Tons	Category	Tons	Category	Tons
S2 Sand/1A, Foundry	5,895.75	F7 Fluff/26A, Shredded Auto Residue	7,780.47	A4 Ag Grain/Soil;35A Known Chemical	0.00	AF Abrasives/7 Buffing Waste	578.34
S3 Sand/6A, Sandblast w/paint	363.00			A5 Ag Grain/Soil/35B Unknown Chemical	0.00	AG Absorbants/18B Plant Cleanup	0.00
S4 Sand/6B, Sandblasting Other	532.23			C7 C-Soil/33A, Pet-Ldd Gas	0.00	A3 Adhesives/8C, Inorg	0.00
SR Sand/1A-ADC Foundry	1,390.98			C9 C-Soil/33A@, Pet-Ldd Gas-ADC	1,043.29	A6 Animals/25/Animal Waste	77.42
				CK C-Soil/33B, Pet-Unldd Gas	0.00	A7 Animals/25/Tax In	0.00
				CI C-Soil/33B@, Pet-Unldd Gas-ADC	2.23	A1 Asbestos F/38A Demo	316.90
				CB C-Soil/33C, Pet-Low Flash	0.00	AA Asbestos F/38B, Ind Proc	0.00
				CD C-Soil/33C@, Pet-Low Flash-ADC	0.00	AH Asbestos N/F/38C, Demo	703.31
				C3 C-Soil/33D, Oil	0.00	AS Asbestos NF/Taxed	0.00
				C5 C-Soil/33D@, Pet-Fuel Oil	0.00	AT Asbestos F/Taxed	0.00
				CF C-Soil/33E, Pet-Lube Oil	0.00	AB Ash, Coal/2A	0.00
				C2 C-Soil/33E@, Oil	0.00	A9 Ash, Coal/2A-Tax In	0.00
				CM C-Soil/33F, Pet-Used Oils	0.00	AC Ash, Incinerator/2C	0.00
				CO C-Soil/33F@, Pet-Used Oils-ADC	0.00	AE Ash, Wood/2B	113.41
				C8 C-Soil/34A, Pet-Ldd Gas	0.00	AD Ash/41A Spec Waste Treatment	0.00
				CA C-Soil/34A@, Pet-Ldd Gas-ADC	0.00	CR Carbon/22, Spent	0.00
				D2 C-Soil/34B, Pet-Unldd Gas	0.00	DQ Carbon/22-Tax In	0.00
				CJ C-Soil;34B@, Pet-Unldd Gas-ADC	0.00	CS Catalysts/21, Spent	0.00
				D1 C-Soil/34C, Pet-Low Flash	0.00	CW Catch Basin/12A, Sanitary Sewer	206.84
				CE C-Soil/34C@, Pet-Low Flash-ADC	0.00	DC Catch Basin/12A-Tax In	0.00
				C4 C-Soil/34D, Fuel Oil	418.75	CT Catch Basin/12B, Car Wash	953.48
				C6 C-Soil/34D@, Pet-Fuel Oil	720.58	DG Catch Basin/12B-Tax In	39.41
				CG C-Soil/34E, Pet-Lube Oil	0.00	CX Catch Basin/12C, Vehicle Maint	7.17
				CH C-Soil/34E@, Pet-Lube Oil-ADC	0.00	DE Catch Basin/12C-Tax In	0.00
				CN C-Soil/34F, Pet-Used Oils	12.40	CU Catch Basin/12D, Food/Grease	0.00
				CP C-Soil/34F@, Pet-Used Oils-ADC	0.00	CV Catch Basin/12E, Industrial	0.00
				C1 C-Soil/37A	1,002.86	CY Ceramic/16 Production	0.00
				CQ C-Soil/37A@	0.00	CZ Chemicals/23, Single Substance	571.03
				D9 Dredge/42A, No PCBs	0.00	DD Chemicals/23-Tax In	0.00
				DA Dredge/42B, PCB-10ug	0.00	A2 Dust/1B, Baghouse	934.74
				DB Dredge/42C, PCB+=10ug	0.00	D6 Dust/1D, Shotblast & Med	2,558.37
				D4 C-Soil/37A-Tax In-ADC	0.00	DF Dust/1D-EXEMPT Shotblast & Med	1,182.61
				D4 C-Soil/37A-Tax In	471.76	E1 Empty Container/31	10.30
				DH C-Soil/33A-Tax In	0.00	E2 Equipment/20, Commercial/Industrial	0.00
				DJ C-Soil/34D-Tax In	0.00	F1 Fertilizers/35C, Agricultural	0.00
				DL C-Soil/34D@-Tax In	44.20	F3 Filters/10B, Ink	0.00
				DP C-Soil/37A-Leachate Leak-No Fees	0.00	F4 Filters/28, Oil-Used	0.00
				DM C-Soil/33B@-Tax In	0.00	F2 Filters/29, Air Intake	8.09
				DN C-Soil/33B-Tax In	0.00	F6 Filters/4A, Paint-Water/Latex	0.00
				DU C-Soil/34B#	0.00	F5 Filters/4B, Paint-Solvent	82.01
				OB Off Spec/17A@	0.00	F0 Filters/4B-Tax In	0.00
				DW C-Soil/34F#	0.00	F8 Food Waste/30	6,488.61
				DX C-Soil/37A#	0.00	FC Food Waste/30-Tax In	119.28
				DY C-Soil/33B#	0.00	FE Filters/29-Tax In	0.00
				DT C-Soil/33A#	0.00	G3 Glass/11A, Optical	0.00
						G1 Glass/11B, Automotive	0.00
						G5 Glass/11C, Residential	167.00
						G2 Glass/11D, Mirrored	0.00
						G4 Glass/11E, Other Speciality	0.00
						G6 Glues/8A, Animal/Vegetable-Based	0.00
						G7 Glues/8B, Solvent-Based	0.00
						L2 Lamps/24A, Crushed	0.00
						L3 Lamps/24B, Treated	0.00
						L4 Leather/19 Wastes	0.00
						L5 Light Ballasts/24C, Non PCB	0.00
						O6 Misc Paint/5, and Paint Chip Dried	0.00
						O7 Other Liquid Wastes/44B	5,916.91
						O3 Off Spec/17A, Uncontaminated	294.98
						O1 Off Spec/17B, Contaminated	0.00
						O2 Off Spec/17C, Ends & Trimming	3.05
						O4 Other Misc/39 Industrial Waste	8,226.46
				NOTE: @ = C-Soil to Bio/ADC		O7 Other Liquid Wastes/44B	0.00
						O9 Other Liquid Wastes/44B-Tax In	5.39
				NOTE: # = C-Soil for Beneficial Reuse		05 Other Misc/39-Tax In	94.99
						P4 PCB/26B, Paints	0.00
						P5 PCB/26C, Plastics	0.00
						P6 PCB/26D, Non-Liquid Demo	0.00
						P7 PCB/26E, Other	0.00
						P2 Paint/3B, Solvent-Based	0.00
						P3 Paint/3A, Water-Based Latex	2.05
						P9 Paint/3A-Tax In	0.00
						P1 Paint/3C, Powdered	307.34
						R1 RR Ties/27B, and Telephone Poles	5.26
						R2 Refactory/9	180.56
						R4 Residue/40, Hazardous Treatment	4,463.42
						R3 Residue/41B, Infectious Waste Trtmnt	0.00
						R5 Resin/8D, Mineral/Asphaltic	0.00
						R6 Resin/8E, Silicone Waste	0.00
						R7 Resin/8F, Thermoplastic	0.00
						R8 Resin/8G, Thermosetting	0.00
						S5 Slag/1C	42.61
						S8 Sludge/10A, Ink	271.15
						S1 Sludge/13A, Paper Mill	62,230.94
						S9 Sludge/13B, Metal Prep WWT	1,839.33
						S0 Sludge/13B-Tax In	0.00
						S7 Sludge/13C, Grinding/Machining	526.97
						S6 Sludge/13C-Tax In	0.00
						SC Sludge/13D, Organic Chemical WWT	148.54
						SI Sludge/13E, Water Curt. Paint	1.51
						SB Sludge/13F, Oil Water Septr	0.00
						SJ Sludge/14, Water Sup Treatment	370.91
						SA Sludge/15, Municipal WWTP	4,706.03
						SF Sludge/32A, Tank Bottom-Gas	0.00
						SE Sludge/32B, Tank Bottom-Fuel Oil	0.00
						SH Sludge/32C, Tank Bottom-Used Oil	0.00
						SD Sludge/32C-Tax In	0.00
						SG Sludge/32D, Tank Bottom-Non-Pet	0.00
						SL Spill Residue/36A, Non Industrial	0.00
						SK Spill Residue/36B, Industrial	0.00
						SN Sweepings/18A, Plant Cleanup	6.47
						SO Street Sweepings/43	697.25
						SU Street Sweepings/43#	0.00
						ST Sludge/15-Tax In	0.00
						W1 Wood/27A, and Sawdust, Untreated	14.46
						W2 Wood/27E, CCA Treated	0.00
						W3 Wood/27C, Creosote Treated	0.00
						W4 Wood/27D, PCP Treated	7.20
						W9 Wood/27B, Weathered Tele Poles & RR Ties	113.52
						D3 Debris/37B, Non Pet-Remediated	18.31
						DR Debris/37B-Tax In	0.20
						ZB 39 GP Misc Industrial Waste	31.66
						SV Sludge/13A#	47,450.00
Generated By: (See Special Waste Generators Listing)		**Generated By:** (See Special Waste Generators Listing)		**Generated By:** (See Special Waste Generators Listing)		**Generated By:** (See Special Waste Generators Listing)	
ADC-Foundry	1,390.98	ADC	7,780.47	@ Bio/ADC	1,810.30	ADC-Foundry	1,182.61
HVIW	5,880.38			# Beneficial Reuse	0.00	Beneficial Reuse	47,450.00
All Other	910.60			All Other	1,905.77	All Other	104,463.18
	8,181.96 tons		7,780.47 tons		3,716.07 tons		153,095.79 tons
	8,181.96				3,716.07		153,095.79
1200	1,517.67			1200	3,176.28	1200	53,293.72 57,987.67
						1684	8,195.65 8,195.65
2000	1,390.98	2000	7,780.47			2000	48,632.61 57,804.06
						2200	56,602.36 56,602.36
3000	3,920.25			3000	1,206.87	3000	2,215.74 7,342.86
	6,828.90 yd3		7,780.47 yd3		4,383.15 yd3		168,940.08 yd3 187,932.60
						Total	172,774.29 tons
							187,932.60 yd3

Advanced Disposal Services Glacier Ridge Landfill, LLC

Special Waste Generators

January 1, 2016 through December 31, 2016

Generator	**CONTRACT** and Material	Weight
Chegwin Elementary Lorenz Bielmeir U S Army Old Highway Garage - Wayne Spritka Lawrence University - Memorial Hall UW - Green Bay C D Smith Construction UW - Oshkosh - Fletcher Hall Walter Schuk Fond du Lac Humane Society	**BADGER ENVIRONMENTAL SERVICES** Asbestos F/38A Demo	17.93 TN
Jay Vockroth	**BEAVER SERVICES-700 BEAVER STREET** Asbestos NF/38C, Demo	47.67 TN
DD Williamson	**DD WILLIAMSON** Food Waste/30-Tax In	84.89 TN
Veolia ES Technical Solutions- Menomonee Falls	**DRUMMED MENO FALLS NON-REG 1** Other Misc/39, Ind Waste	6.00 TN
Various Cash Customers	**GLACIER GATE RATE** Asbestos F/38A Demo Asbestos NF/38C, Demo	0.64 TN 14.72 TN
Maysteel Corporation	**GRL 00010** Paint/3C, Powdered	42.84 TN
Mercury Marine	**GRL 00048** C-Soil/37A	169.96 TN
Caine Warehousing	**GRL 00075** Food Waste/30	29.17 TN
Village of Hartland	**GRL 00096** Street Sweepings/43	167.53 TN
Gardner Equipment	**GRL 01013** Paint/3C, Powdered	3.29 TN
Sadoff & Rudoy Industries	**GRL 01042** Fluff/26A, Shredded Auto Residue	6,774.98 TN
Central Wire	**GRL 01095** Sludge/13B, Metal Prep WWT	160.51 TN
LeRoy Meats	**GRL 02085D** Animals/25, Animal Waste	5.98 TN
Saukville Meats	**GRL 02092D** Animals/25, Animal Waste	2.09 TN
Construction Forms Inc.	**GRL 03001** Other Misc/39, Ind Waste	27.60 TN
Country Meat Cutters	**GRL 03015D**	

	Animals/25, Animal Waste	5.54	TN
J. F. Ahern	**GRL 03050**		
	Sand/6A, Sandblast w/paint	283.93	TN
	Sand/6B, Sandblasting other	176.41	TN
Fisher Barton	**GRL 03051**		
	Other Misc/39, Ind Waste	2.40	TN
John Deere Horicon Works	**GRL 03091**		
	Other Misc/39, Ind Waste	38.40	TN
Alliance Laundry Systems	**GRL 04012**		
	Sludge/13D, Organic Chem. WWT	148.54	TN
Saukville Public Works	**GRL 04018**		
	Street Sweepings/43	57.70	TN
Veolia ES Industrial Services - Sheboygan	**GRL 04029DL**		
	Catch Basin/12B-Tax In	39.41	TN
Kleen Test	**GRL 04034**		
	Off Spec/17A-Uncontaminated	218.62	TN
John Deere Horicon Works	**GRL 04036**		
	Other Misc/39, Ind Waste	3.50	TN
Mercury Marine	**GRL 04045DL**		
	Sludge/13C, Grinding/Maching	2.36	TN
Kirsh Foundry	**GRL 04060**		
	Dust/1D-EXEMPT Shotblast & Media	425.63	TN
Kirsh Foundry	**GRL 04061**		
	Sand/1A-ADC Foundry	255.34	TN
Village of Pewaukee	**GRL 04073**		
	Street Sweepings/43	42.72	TN
Eaton's Cooper Power Systems	**GRL 05030**		
	Sludge/13E, Water Curt. Paint	1.51	TN
Eaton's Cooper Power Systems	**GRL 05030DL**		
	Other Misc/39, Ind Waste	298.71	TN
Ozburn Hessey	**GRL 05035**		
	Food Waste/30	179.58	TN
Lakeside Foods	**GRL 06023**		
	Food Waste/30	47.55	TN
BCI Burke	**GRL 06047**		
	Filters/4B, Paint-Solvent	1.58	TN
	Off Spec/17C-Ends & Trimming	3.05	TN
Fall River Foundry	**GRL 07002**		
	Sand/1A, Foundry	2,799.21	TN
Northstar Environmental	**GRL 07015DL**		
	Catch Basin/12B, Car Wash	21.09	TN
Clayton County Recycling	**GRL 07027**		
	Fluff/26A, Shredded Auto Residue	1,005.49	TN

Rhodes Bake-N-Serve	**GRL 07028**		
	Food Waste/30	483.41	TN
Richland Center Foundry	**GRL 07042**		
	Sand/1A, Foundry	1,662.60	TN
Richland Center Foundry	**GRL 07043**		
	Dust, Baghouse/1B	204.74	TN
Federal Mogul	**GRL 07050**		
	Abrasives/7 Buffing Waste	488.12	TN
Metal Tek	**GRL 08002**		
	Sand/1A, Foundry	335.13	TN
United Liquid Waste	**GRL 08024**		
	Food Waste/30	4,571.75	TN
	Food Waste/30-Tax In	0.50	TN
Hartford Finishing	**GRL 08061**		
	Paint/3C, Powdered	103.47	TN
Hartford Finishing	**GRL 08062**		
	Sludge/13B, Metal Prep WWT	78.89	TN
Federal Mogul	**GRL 08074**		
	Sludge/13C, Grinding/Maching	7.35	TN
Village of Jackson	**GRL 08091**		
	Street Sweepings/43	103.44	TN
CP Rail	**GRL 08095**		
	RR Ties /27B& Tele Poles	5.26	TN
Kleen Test	**GRL 09004**		
	Chemicals/23, Single Substan	1.20	TN
Seats Incorporated	**GRL 09012**		
	Other Misc/39, Ind Waste	68.94	TN
Village of Slinger	**GRL 09014**		
	Street Sweepings/43	27.55	TN
City of Fond du Lac	**GRL 09021**		
	Sludge/15, Municipal WWTP	1,637.43	TN
Kewaskum WWTP	**GRL 09027**		
	Refractory /9	15.78	TN
John Deere Horicon Works	**GRL 09028**		
	Other Misc/39, Ind Waste	5.26	TN
Kleen Test	**GRL 09035**		
	Other Misc/39, Ind Waste	12.14	TN
Norstar Aluminum Metals	**GRL 09089**		
	Sand/1A, Foundry	110.43	TN
Norstar Aluminum Metals	**GRL 09090**		
	Other Misc/39, Ind Waste	110.48	TN
Hartford Finishing	**GRL 09127**		
	Sludge/13B, Metal Prep WWT	0.79	TN

Hartford Finishing	**GRL 09128**		
	Sludge/13C, Grinding/Maching	139.22	TN
Village of Grafton	**GRL 09135**		
	Street Sweepings/43	252.79	TN
Menasha Packaging	**GRL 09140**		
	Sludge/10A,Ink	271.15	TN
Apache Stainless Equipment Corporation	**GRL 10019**		
	Sludge/13C, Grinding/Maching	12.00	TN
Apache Stainless Equipment Corporation	**GRL 10020**		
	Other Misc/39, Ind Waste	0.60	TN
Covance Laboratory Inc.	**GRL 10076**		
	Ash, Wood/2B	2.87	TN
Cambrex	**GRL 10078**		
	Other Misc/39, Ind Waste	85.17	TN
Johnson's Sausage Shoppe	**GRL 10082D**		
	Animals/25, Animal Waste	10.18	TN
Cambrex	**GRL 10087**		
	Sludge/15, Municipal WWTP	1,367.82	TN
Mantz Automation	**GRL 11001**		
	Sweepings/18A, Plant Cleanup	6.47	TN
Central Wire	**GRL 11004DL**		
	Other Misc/39-Tax In	57.07	TN
Cardinal FG	**GRL 11007**		
	Chemicals/23, Single Substan	569.65	TN
Cardinal FG	**GRL 11008**		
	Other Misc/39, Ind Waste	202.98	TN
W P & L/Alliant Energy	**GRL 11015**		
	Wood/27B, Weathered Tele Poles & RR Ties	3.72	TN
City of West Bend Sewer	**GRL 11020**		
	Catch Basin/12A, San Sewr	162.64	TN
Grande Cheese	**GRL 11023**		
	Food Waste/30	286.39	TN
	Food Waste/30-Tax In	9.88	TN
Brenner Tank	**GRL 11046**		
	Other Misc/39, Ind Waste	12.19	TN
Saukville WWTP	**GRL 11070**		
	Catch Basin/12A, San Sewr	15.94	TN
Paul's Deer Processing	**GRL 11076D**		
	Animals/25, Animal Waste	10.48	TN
Spectrum Brands	**GRL 11079**		
	Other Misc/39, Ind Waste	4.52	TN
Spectrum Brands	**GRL 11079DL**		
	Other Misc/39, Ind Waste	17.92	TN

Refractory Service	**GRL 11087**		
	Off Spec/17A-Uncontaminated	76.36	TN
Refractory Service	**GRL 11088**		
	Refractory /9	58.68	TN
Momentive Specialty Chemical	**GRL 12014**		
	Other Misc/39-Tax In	26.41	TN
	Other Misc/39, Ind Waste	47.42	TN
Covanta Environmental Solutions	**GRL 12016DL**		
	Other Liquid Wastes/44B	300.99	TN
Brenner Tank	**GRL 12020**		
	Sand/6B, Sandblasting other	23.43	TN
Covanta Environmental Solutions	**GRL 12038DL**		
	Other Liquid Wastes/44B	5,606.11	TN
Advanced Disposal Services - Horicon	**GRL 12062**		
	Catch Basin/12B, Car Wash	24.92	TN
Advanced Disposal Services - Horicon	**GRL 12062DL**		
	Catch Basin/12B, Car Wash	454.09	TN
John Deere Horicon Works	**GRL 12084**		
	Paint/3C, Powdered	4.72	TN
Mercury Marine	**GRL 12090**		
	Filters/29, Air Intake	2.61	TN
Grande Cheese	**GRL 12102DL**		
	Catch Basin/12A, San Sewr	4.62	TN
SCA Tissue North America LLC	**GRL 13001 TP-1**		
	Sludge/13A, Paper Mill	54,264.50	TN
SCA Tissue North America LLC	**GRL 13001 TP-2**		
	Sludge/13A, Paper Mill	7,966.44	TN
	Sludge/13A#	47,450.00	TN
Arrow Manufacturing, Inc.	**GRL 13004**		
	Other Misc/39, Ind Waste	5.40	TN
Kleen Test	**GRL 13011**		
	Other Misc/39, Ind Waste	2.21	TN
Saputo Cheese	**GRL 13015**		
	Food Waste/30	21.30	TN
Covanta Environmental Solutions	**GRL 13028DL**		
	Other Liquid Wastes/44B	9.81	TN
Modern Equipment	**GRL 13034**		
	Sand/6B, Sandblasting other	43.51	TN
Suburban Foundry	**GRL 13047**		
	Sand/1A, Foundry	95.55	TN
Alliance Laundry Systems	**GRL 13076**		
	Sludge/13C, Grinding/Maching	47.73	TN
Baraboo WTF	**GRL 13078**		
	Catch Basin/12A, San Sewr	23.64	TN

Fall River Foundry	**GRL 13080** Dust/1D, Shotblast & Med	2,385.42	TN
Madison-Kipp Corporation	**GRL 13088** Refractory /9	52.34	TN
Veolia ES Technical Solutions - Port Washington	**GRL 14067** Residue/40, Haz Treatment	263.74	TN
Madison-Kipp Corporation	**GRL 14087** Food Waste/30	81.53	TN
John Deere Horicon Works	**GRL 14103** Other Misc/39, Ind Waste	5.69	TN
Regal Ware	**GRL 14114** Other Misc/39, Ind Waste	85.63	TN
Regal Ware	**GRL 14115** Other Misc/39, Ind Waste	84.23	TN
Regal Ware	**GRL 14116** Abrasives/7 Buffing Waste	90.22	TN
Hartford Finishing	**GRL 14118** Paint/3C, Powdered	61.21	TN
Veolia ES Technical Solutions - Port Washington	**GRL 14124** Other Misc/39, Ind Waste	102.23	TN
Hartford Finishing	**GRL 14125** Sludge/13B, Metal Prep WWT	20.23	TN
Village of Lomira WWTP	**GRL 14126** Sludge/15, Municipal WWTP	473.27	TN
Northern Trail Meats	**GRL 14145D** Animals/25, Animal Waste	14.54	TN
Village of Newburg	**GRL 14146** Street Sweepings/43	45.52	TN
Hartford Finishing	**GRL 14149** Sand/6B, Sandblasting other	41.80	TN
Georgia Pacific	**GRL 14250** 39 GP MISC INDUSTRIAL WASTE	31.66	TN
Harley Davidson	**GRL 15016** Other Misc/39, Ind Waste	13.37	TN
Harley Davidson	**GRL 15016DL** Other Misc/39-Tax In	6.80	TN
Eaton's Cooper Power Systems	**GRL 15026DL** Sludge/13B, Metal Prep WWT	94.87	TN
Veolia ES Technical Solutions - Port Washington	**GRL 15031** Other Misc/39, Ind Waste	85.56	TN
Mercury Marine	**GRL 15038** Debris/37B, Non Pet-Remediated	3.79	TN

Metal Tek	**GRL 15044** Sand/6A, Sandblast w/paint	43.39	TN
Metal Tek	**GRL 15045** Dust/1D, Shotblast & Med	43.39	TN
The Laser Shop	**GRL 15048** Other Misc/39, Ind Waste	64.17	TN
Saputo Cheese	**GRL 15049** Other Misc/39, Ind Waste	15.97	TN
ATC - South Fond du Lac Substation	**GRL 15053** C-Soil/37A-Tax In	75.36	TN
ATC - South Fond du Lac Substation	**GRL 15054** C-Soil/37A-Tax In	6.33	TN
Zinc Inc.	**GRL 15057** Sludge/13B, Metal Prep WWT	28.57	TN
Mayville Engineering Company Inc.	**GRL 15062DL** Sludge/13B, Metal Prep WWT	71.03	TN
Steele Solutions	**GRL 15065DL** Other Misc/39, Ind Waste	8.49	TN
Marquette County Fair	**GRL 15069** Animals/25, Animal Waste	15.09	TN
John Deere Horicon Works	**GRL 15070B** C-Soil/34D@, Pet-Fuel Oil	660.06	TN
Big Gain Wisconsin	**GRL 15076** Food Waste/30	290.06	TN
Helgesen Industries	**GRL 15079** Filters/4B, Paint-Solvent	5.15	TN
Helgesen Industries	**GRL 15080** Paint/3A, Water-based/Latex	2.05	TN
Helgesen Industries	**GRL 15081** Other Misc/39, Ind Waste	1.84	TN
Helgesen Industries	**GRL 15082** Other Misc/39, Ind Waste	3.07	TN
Sysco Foods	**GRL 15096** Food Waste/30	10.09	TN
Advanced Disposal Services - Hartland	**GRL 15103** C-Soil/37A	31.92	TN
Federal Mogul	**GRL 15109** Sludge/13C, Grinding/Maching	7.35	TN
Construction Forms Inc.	**GRL 15113** Other Misc/39, Ind Waste	1.02	TN
Hartford Finishing	**GRL 16001** Sand/6B, Sandblasting other	13.10	TN
Mercury Marine	**GRL 16002**		

	C-Soil/37A	197.65	TN
Eaton's Cooper Power Systems	**GRL 16003**		
	Other Misc/39, Ind Waste	1.49	TN
WisDOT ID #3364-03-73 (Cole's Amoco, Lomira)	**GRL 16004B**		
	C-Soil/33A@ , Pet-Ldd Gs-ADC	1,043.29	TN
Dollar General Store #6587 (North Fond du Lac)	**GRL 16005**		
	Food Waste/30	15.34	TN
Milk Specialties	**GRL 16006**		
	Food Waste/30	21.27	TN
Veolia ES Technical Solutions - Fort Atkinson	**GRL 16007**		
	Sludge/15, Municipal WWTP	1,227.51	TN
Riesterer & Schnell	**GRL 16008DL**		
	Catch Basin/12C, Veh Maint	6.12	TN
Sanimax USA LLC	**GRL 16009B**		
	C-Soil/34D@, Pet-Fuel Oil	55.40	TN
Sanimax USA LLC	**GRL 16010**		
	C-Soil/34D, Fuel Oil	378.38	TN
City of Waupun (WisDOT ID #6090-06-76)	**GRL 16012**		
	C-Soil/37A	100.66	TN
Cardinal FG	**GRL 16014**		
	Other Misc/39, Ind Waste	174.17	TN
Harley Davidson	**GRL 16017DL**		
	Other Liquid Wastes/44B-Tax In	1.65	TN
Lunda Construction	**GRL 16018**		
	Wood/27B, Weathered Tele Poles & RR Ties	79.76	TN
Graymont Western Lime Inc.	**GRL 16019**		
	Debris/37B, Non Pet-Remediated	1.00	TN
Schneider Transportation	**GRL 16020**		
	Food Waste/30	18.97	TN
Eaton's Cooper Power Systems	**GRL 16021**		
	Debris/37B, Non Pet-Remediated	0.02	TN
	Debris/37B-Tax In	0.20	TN
Landmark Services Cooperative	**GRL 16024**		
	Food Waste/30	2.75	TN
Hartford Finishing	**GRL 16025**		
	Dust/1D, Shotblast & Med	1.86	TN
Perry Way Foods	**GRL 16027**		
	Food Waste/30	5.36	TN
Milk Specialties Global	**GRL 16028**		
	Food Waste/30	11.22	TN
Associated Milk Producers, Inc.	**GRL 16029**		
	Other Misc/39, Ind Waste	173.89	TN
Embassy Condo Homeowners Association	**GRL 16031DL**		

	Catch Basin/12B, Car Wash	3.26	TN
Advanced Disposal Services - Horicon	**GRL 16032**		
	Debris/37B, Non Pet-Remediated	13.50	TN
Advanced Disposal Services - Glacier Ridge Landfill	**GRL 16033**		
	C-Soil/37A	3.68	TN
Clasen Quality Coatings Inc.	**GRL 16034**		
	Food Waste/30	30.50	TN
	Food Waste/30-Tax In	15.81	TN
Wisconsin & Southern Railroad	**GRL 16035**		
	Other Misc/39, Ind Waste	3.44	TN
Herman Management Co., LLC	**GRL 16036B**		
	C-Soil/34D@, Pet-Fuel Oil	5.12	TN
Van Asten Painting	**GRL 16037**		
	Sand/6A, Sandblast w/paint	35.68	TN
Advanced Disposal Services - Sheboygan	**GRL 16038DL**		
	Other Liquid Wastes/44B-Tax In	3.74	TN
Mercury Marine	**GRL 16039**		
	C-Soil/37A	16.84	TN
Federal Mogul	**GRL 16040**		
	Other Misc/39-Tax In	4.71	TN
Veolia ES Technical Solutions - Port Washington	**GRL 16041**		
	C-Soil/37A	56.30	TN
Razor Composites	**GRL 16043**		
	Other Misc/39, Ind Waste	37.65	TN
Former Ataco Steel/Construction Forms, Inc.	**GRL 16044**		
	C-Soil/37A	37.36	TN
Federal Mogul	**GRL 16045**		
	Empty Cont/31	6.41	TN
Columbia County	**GRL 16046**		
	Ash, Wood/2B	46.30	TN
John Deere Horicon Works	**GRL 16047**		
	Catch Basin/12C, Veh Maint	1.05	TN
Seneca Foods	**GRL 16048**		
	Wood /27A, Sawdust-Untreated	14.46	TN
John Deere Horicon Works	**GRL 16049**		
	C-Soil/37A	59.36	TN
Federal Mogul	**GRL 16050**		
	Empty Cont/31	3.89	TN
Oconomowoc Landscape Supply	**GRL 16051**		
	C-Soil/34D, Fuel Oil	40.37	TN
Walmart DC #7039 (Beaver Dam)	**GRL 16052**		
	Food Waste/30	2.29	TN
United Liquid Waste Recycling, Inc.	**GRL 16053**		

	Glass/11C, Residential	167.00	TN
Veolia ES Technical Solutions - Port Washington	**GRL 16059B**		
	C-Soil/33B@, Pet-Unld Gs-ADC	2.23	TN
Sadoff Iron & Metal	**GRL 16060**		
	Other Misc/39, Ind Waste	81.94	TN
Kondex Corporation	**GRL 16062**		
	Other Misc/39, Ind Waste	23.78	TN
Kondex Corporation	**GRL 16065**		
	Other Misc/39, Ind Waste	72.56	TN
MBW, Inc.	**GRL 16069**		
	Filters/4B, Paint-Solvent	0.14	TN
Sysco Foods of Baraboo	**GRL 16070**		
	Food Waste/30	32.37	TN
Perry Way Foods	**GRL 16071**		
	Food Waste/30	18.84	TN
City of Mayville	**GRL 16072**		
	Other Misc/39, Ind Waste	92.49	TN
ATC - Barton Substation	**GRL 16073DL**		
	C-Soil/37A-Tax In	338.92	TN
ATC - St. Lawrence Substation	**GRL 16074DL**		
	C-Soil/37A-Tax In	22.64	TN
Grande Cheese	**GRL 16076**		
	Food Waste/30	142.24	TN
	Food Waste/30-Tax In	8.20	TN
Ryder	**GRL 16077**		
	Food Waste/30	86.05	TN
Greg Johnson	**GRL 16078**		
	Ash, Wood/2B	39.31	TN
Ryder	**GRL 16079**		
	Food Waste/30	4.14	TN
Sysco Foods of Baraboo	**GRL 16080**		
	Food Waste/30	23.40	TN
Kirsh Foundry	**GRL 16081**		
	Dust/1D, Shotblast & Med	85.09	TN
Kirsh Foundry	**GRL 16082**		
	Slag /1C	42.61	TN
Kirsh Foundry	**GRL 16083**		
	Dust/1D, Shotblast & Med	42.61	TN
Kraft Foods	**GRL 16084**		
	C-Soil/37A	326.40	TN
Village of Lomira	**GRL 16085**		
	Wood/27D, PCP Treated	7.20	TN
Arami Krebs	**GRL 16087**		

	Food Waste/30	0.46	TN
Swift Transportation Corporation	**GRL 16088B** C-Soil/34D@-Tax In	44.20	TN
Graymont Western Lime Inc.	**GRL 16089** C-Soil/37A	2.73	TN
Steve Pestor Joseph Pillsbury Jan Zirbel	**GRL 16090D** Animals/25, Animal Waste	0.39	TN
Honey Acres Inc.	**GRL 16091** Food Waste/30	3.64	TN
Bergstrom Corporation	**GRL 16094DL** Other Misc/39, Ind Waste	4.94	TN
Alliant Energy	**GRL 16095** Filters/29, Air Intake	5.48	TN
Village of Lomira	**GRL 16096** Ash, Wood/2B	24.93	TN
Border States Electric	**GRL 16097** Wood/27B, Weathered Tele Poles & RR Ties	30.04	TN
ATC - Concord Substation	**GRL 16104DL** C-Soil/37A-Tax In	28.51	TN
Gehrings Meat Market	**GRL 16106D** Animals/25, Animal Waste	11.03	TN
Flint Hills Resources Pine Bend, LLC	**GRL 16108** C-Soil/34F, Pet-Used Oils	12.40	TN
Sysco Foods of Baraboo	**GRL 16112** Food Waste/30	3.17	TN
Vanderloop Equipment	**GRL 16113** Animals/25, Animal Waste	2.10	TN
Metal Tek	**GRL 16116** Chemicals/23, Single Substan	0.18	TN
John Deere Horicon Works	**GRL 940332** Sand/1A, Foundry	136.05	TN
John Deere Horicon Works	**GRL 940332DL** Sand/1A, Foundry	12.22	TN
Veolia ES Technical Solutions - Port Washington	**GRL 950015** Residue/40, Haz Treatment	40.29	TN
Mercury Marine	**GRL 950032** Sludge/13B, Metal Prep WWT	221.34	TN
Mercury Marine	**GRL 950171** Sand/1A, Foundry	569.29	TN
Karavan Trailers	**GRL 950226** Paint/3C, Powdered	17.17	TN
Grande Cheese	**GRL 980041**		

	Food Waste/30	33.52	TN
Robbins Manufacturing	**GRL 980111**		
	Paint/3C, Powdered	69.32	TN
Mercury Marine	**GRL 990001**		
	Other Misc/39, Ind Waste	164.74	TN
John Deere Horicon Works	**GRL 990002**		
	Sludge/13C, Grinding/Maching	8.97	TN
Mercury Marine	**GRL 990026**		
	Sludge/13B, Metal Prep WWT	1,163.10	TN
Mercury Marine	**GRL 990027**		
	Dust, Baghouse/1B	730.00	TN
Wisconsin & Southern Railroad	**GRL 990037**		
	Sand/1A, Foundry	175.27	TN
John Deere Horicon Works	**GRL 990153**		
	Sludge/14, Water Sup Trtment	322.98	TN
Seneca Foods	**GRL01010**		
	Food Waste/30	8.67	TN
Watertown Hopps	**GRL970122**		
	Food Waste/30	23.58	TN
	Other Misc/39, Ind Waste	8.30	TN
Ad Tech Technologies, Inc.	**GRLO1007**		
	Filters/4B, Paint-Solvent	75.14	TN
Hartford Community Development Authority	**HARTFORD COMM DEV AUTH**		
	Asbestos NF/38C, Demo	0.38	TN
H.I.S. Corp	**HIS CORP**		
	Asbestos NF/38C, Demo	4.62	TN
Advanced Disposal Services - Horicon (various customers)	**HORICON HAUL**		
	Asbestos F/38A Demo	23.75	TN
	Asbestos NF/38C, Demo	154.47	TN
Kirsh Foundry	**KIRSH MIXED LOADS**		
	Dust/1D-EXEMPT Shotblast & Media	756.98	TN
	Sand/1A-ADC Foundry	1,135.64	TN
Tod Alovski	**L & H GYR**		
	Asbestos NF/38C, Demo	57.38	TN
Jacob Klein	**MADISON PARK BROOK DEMO**		
	Asbestos NF/38C, Demo	338.87	TN
Veolia ES Technical Solutions - Menomonee Falls	**MENO FALLS NON-REG 1**		
	Other Misc/39, Ind Waste	5,954.08	TN
	Residue/40, Haz Treatment	4,159.39	TN
Metal Craft	**METAL CRAFT MIXED**		
	Paint/3C, Powdered	5.32	TN
	Sludge/14, Water Sup Trtment	47.93	TN
Michels Corporation	**MICHELS MIXED**		
	Catch Basin/12B, Car Wash	450.12	TN
	Sand/6B, Sandblasting other	117.47	TN

St. Agnes Hospital	**ROBINSON BROTHERS**		
	Asbestos F/38A Demo	7.27	TN
Former Campbellsport Convent - School Sisters of St. Francis	**ROBINSON-CAMPBELLSPORT CONVENT**		
	Asbestos F/38A Demo	245.38	TN
	Asbestos NF/38C, Demo	47.13	TN
Port Washington Schools	**ROBINSON-PORT WASHINGTON SCHOOLS**		
	Asbestos F/38A Demo	10.13	TN
	Asbestos NF/38C, Demo	8.00	TN
Rosenow Elementary School	**ROBINSON-ROSENOW ELEMENTARY**		
	Asbestos F/38A Demo	7.47	TN
Flint Hills Resources Pine Bend, LLC	**SGS ENVIRO-FLINT HILLS FARM HOUSE DEMO**		
	Asbestos NF/38C, Demo	1.48	TN
Spuncast	**SPUNCAST MIXED LOADS**		
	Refractory /9	53.76	TN
	Sand/6B, Sandblasting other	116.51	TN
	Sludge/13C, Grinding/Maching	277.85	TN
Veolia ES Technical Solutions - Port Washington	**VES TS - PORT WA**		
	Asbestos F/38A Demo	0.39	TN
	Asbestos NF/38C, Demo	0.14	TN
C. Brakebush -	**W D NAVIS 2011**		
	Asbestos NF/38C, Demo	20.81	TN
Gene Larsen City of Baraboo Carol Block WI Dells Ranger Station	**WAUNAKEE HAULING**		
	Asbestos F/38A Demo	3.94	TN
	Asbestos NF/38C, Demo	7.64	TN
Wisconsin Metal Cleaning	**WI METAL CLEAN MIXED**		
	Other Misc/39, Ind Waste	9.88	TN
	Sludge/13C, Grinding/Maching	24.14	TN
		172,774.29	TN

Attachment A-2

2016 License Renewal Application

State of Wisconsin Department of Natural Resources

SOLID WASTE TONNAGE/CAPACITY CERTIFICATION/LICENSE RENEWAL 2017

(SEE INSTRUCTIONS) Form 4400-123 01-07 N505

*** FORM MUST BE RETURNED BY MARCH 1, 2017 *** *** NO LICENSE FEE DUE NOW ***

Return form to: WMM - ABIGAIL ERNST
DNR-SOUTH CENTRAL REGION
3911 FISH HATCHERY RD
FITCHBURG WI, 53711 5397

For Questions Call: ABIGAIL ERNST
(608) 275-3289

License # 3068 FID # 114063950 SC 14

I. Facility Information: (All Facilities Complete this Section)

(920) 387-0987
ADVANCED DISPOSAL SERVICES GLACIER RIDGE LLC
LONN WALTER, GEN MGR
ADVANCED DISPOSAL SERVICES GLACIER RIDGE LLC
N7296 HWY V
HORICON, WI 53032

Landfill > 500,000 Cu Yd

Enter Corrections Below:

Telephone No:
Facility Name:
Contact/Title:
Licensee:
Mailing Address:

Email: lonn.walter@advanceddisposal.com

The period of this license is OCTOBER 1, 2017 through SEPTEMBER 30, 2018.

II. Application for license renewal to operate a solid waste disposal facility in compliance with s.289.31, Stats.

Complete Section III, IV, V and VI and return to the DNR office shown above.
If you are applying for renewal, complete or correct the information below:

1. Site Location: SW 1/4 OF NW 1/4 OF SECTION 35, T12N, R16E, Dodge County

   Address: RAASCHS HILL RD
   Township/City: WILLIAMSTOWN TN

2. Service Areas:
   Dodge County
   Columbia County

3. Authorized Waste Types:

W050- ASBESTOS	W180- CONTAMINATED SOIL	W220- DEMOLITION
W340- GARBAGE	W530- NONCOMBUSTIBLE	W670- REFUSE
W790- WOOD MATTER		

III. Waste Disposal Tonnage/Capacity Certification (All facilities complete Tonnage/Capacity Worksheet)

PLEASE NOTE: All 2016 tonnage data must be submitted electronically – rather than on paper copies. An electronic copy of SUPPLEMENTAL DATA TABLE A will be sent to you via e-mail. Please follow the instructions in the e-mail to report your 2016 tonnage data. in compliance with s.289.57 and subch. VI of ch. 289, Stats. and NR 520.14, Wis. Admin. Code.

- Continue on reverse side -

IV. Transporter Information for 2016 (Attach additional sheets as needed.)

WDNR Lic. No.	Company Name	Address	City	State	Zip Code
	See Attached Listing				

V. Out-of-State Waste - Waste Amounts Accepted in 2016 Which Originated Outside of Wisconsin

PLEASE NOTE: All 2016 tonnage data must be submitted electronically - rather than on paper copies. An electronic copy of SUPPLEMENTAL DATA TABLE B will be sent to you via e-mail. Please follow the instructions in the e-mail to report your 2016 Out-of-State Waste tonnage data.

VI. Certified Facility Manager/Operator Information - In accordance with NR 524. 05, Wis. Adm. Code, submit a list of certified facility managers and certified facility operators for this landfill with this license renewal form.

For high volume industrial waste landfills, qualified persons may be listed in place of or in addition to certified operators.

VII. Certification - I hereby certify that the information provided is true and accurate to the best of my knowledge and belief.

Jacob A. Margelofsky
Name (Typed or Printed)

Operations Manager
Title

Signature of Preparer

02/24/17
Date Signed

Department of Natural Resources Staff Only

Date Received _____ Staff _____

Date Processed on System _____ Region/Area _____

Glacier Ridge 2016 List of Transporters

WDNR HAULING LICENSE #	HAULER	ADDRESS				TELEPHONE #	
	A & W Iron & Metal	7588 Otten Drive	Kewaskum	WI	53040	(262) 338-8487	
10001	Advanced Disposal Services - Fort Atkinson	1215 Klement Street	Fort Atkinson	WI	53538	(920) 563-4505	
11405	Advanced Disposal Services - Hartland	559 Progress Drive	Hartland	WI	53029	(262) 367-6040	
12737	Advanced Disposal Services - Horicon	N7296 Highway V	Horicon	WI	53032	(920) 387-0987	
12371	Advanced Disposal Services - Omro	250 Adler Avenue	Omro	WI	54963	(920) 685-6666	
11393	Advanced Disposal Services - Waunakee	300 Raemisch Road	Waunakee	WI	53597	(608) 807-3218	
10570	Advanced Disposal Services - Sheboygan	2905 Paine Avenue	Sheboygan	WI	53081	(920) 458-6030	
	Advanced Woodworks LLC	113 Washington Street	Horicon	WI	53032	(920) 485-0909	
14698	American Disposal	807 Elm Street	Watertown	WI	53098	(920) 988-9730	
15534	American Metal and Paper	7588 Otten Drive	Kewaskum	WI	53040	(262) 338-8487	
	American RSI	W9581 County Trunk S	Beaver Dam	WI	53916	(920) 887-7500	
	Anderson Landscaping and Maintenance	1121 Carrington Avenue	South Milwaukee	WI	53172	(414) 254-8881	
	Badgerland Demolition & Earthwork, Inc.	3022 Williams Grant Drive	De Pere	WI	54115	(920) 532-0437	
10711	Beaver Services	W8031 Highway 33	Beaver Dam	WI	53916	(920) 887-7030	
	Benter Builders	N8492 Bancroft Road	Theresa	WI	53091	(920) 488-2657	
15176	Best Waste Solutions LLC	751 West Oakland Avenue	Port Washington	WI	53074	(262) 478-0630	
	Big Gain Wisconsin	W9077 Schutz Road	Lodi	WI	53555	(608) 592-5760	
	Brian Westphal	W8976 Well Road	Reeseville	WI	53579	(920) 296-8369	
14218	Chief Liquid Waste	210 Tower Road	Winneconne	WI	54986	(920) 582-7596	
13822/14506/15552	Covanta Environmental Solutions	3801k West McKinley Avenue	Milwaukee	WI	53208	(414) 847-7100	
10093	City of Baraboo	450 Roundhouse Court	Baraboo	WI	53913	(608) 355-2736	x224
10232	City of Hartford	109 North Main Street	Hartford	WI	53027	(920) 673-8204	
	City of Horicon	404 East Lake Street	Horicon	WI	53032	(920) 485-3500	
	City of Mayville	15 South School Street	Mayville	WI	53050	(920) 387-7980	
	Clayton County Recycling	11645 Echo Avenue	Monona	IA	52159	(563) 539-4757	
	D. B. Reetz	310 East Lake Street	Horicon	WI	53032	(920) 485-2149	
	DNR - Horicon	N7725 Highway 28	Horicon	WI	53032	(920) 387-7860	
	Dodge County Highway Dept	211 East Center Street	Juneau	WI	53039	(920) 386-3650	
	Dodge County Housing Authority	491 East Center Street	Juneau	WI	53039	(920) 386-2866	
	Donegon Construction	N4853 County Highway E	Hustisford	WI	53034	(920) 349-8271	
15708	Eilertson Incorporated	820 Morris Street	Fond du Lac	WI	54935	(920) 921-8982	
13691	Fischer Truck Service Inc	N104 W13075 Donges Bay Road	Germantown	WI	53022	(262) 334-8180	
10958	Fleischman Excavating	1101 Milwaukee Street	Lomira	WI	53048	(920) 269-4763	
	Giddings Hawkins Maintenance Service	2112 South 56th Street	Milwaukee	WI	53219	(414) 649-8474	
12667	Gene Fredrickson Trucking, Inc	4450 Fieldcrest Dr.	Kaukana	WI	54130	(920) 766-1100	
	Grande Cheese	P O Box 67	Brownsville	WI	53006	(920) 269-7200	
13968	H.I.S. Corporation	5700 Highway K	Hartford	WI	53027	(262) 644-5297	
	Hg Transport LLC	1333 Cedar Street	Green Bay	WI	54302	(920) 435-4681	
	Habitat for Humanity	724 Elm Street, Suite 103	West Bend	WI	53095	(262) 338-0690	
15549	Hanke Trucking Inc.	765 Hilldale Road	Slinger	WI	53086	(262) 644-9080	
10232	Hartford Community Development Authority	109 North Main Street	Hartford	WI	53027	(262) 670-3770	
	Havlicek Trucking	303 West Third Street	Monona	IA	52159	(563) 539-4529	
15179	Hawk Construction LLC	3639 Scenic Drive	Jackson	WI	53037	(262) 677-9410	
	Heimerl Home & Building	510 North Spring Street	Beaver Dam	WI	53916	(920) 887-3881	
15421	Iverson & Sons LLC	3190 County Road N	Cottage Grove	WI	53527	(608) 839-1579	
	Iwish Management	P O Box 624	Slinger	WI	53086	(262) 271-1100	
12953	J J Baumhardt Trucking Inc.	W3998 Highway 45	Eden	WI	53019	(920) 477-2611	
13625	J O Trucking	W144 S7435 Indian Trail	Muskego	WI	53150	(414) 422-9223	
14312	Jerry Hepp Excavating	P O Box 47	Watertown	WI	53094	(920) 261-6739	
16446	Jewell Services LLC	W219 S7646 Crowbar Road	Muskego	WI	53150	(414) 852-4899	
	John Engelhardt and Sons Inc.	110 First Street	Kewaskum	WI	53040	(800) 540-4129	

15556	Kreilkamp Trucking	6487 Highway 175	Allenton	WI	53002	(262) 629-5000
	Krieser Construction	77 Breckenridge Street	Mayville	WI	53050	(920) 387-2000
	Kuehl Contractor	202 Michael Drive	Iron Ridge	WI	53035	(920) 625-3979
12456	L & H GYR	P.O. Box 1412	Fond du Lac	WI	54936	(920) 921-7546
15743	Landfill Reduction Trucking LLC	3001 East Glendale Avenue, Suite B	Appleton	WI	54911	(920) 318-8118
	Legacy Construction Services	P O Box 9486	Green Bay	WI	54308	(920) 468-4428
	Lorrigan's Quality Home Exteriors Inc.	W980 Kelly Drive	Rubicon	WI	53078	(262) 673-6045
	MM Builders	230 North German Street	Mayville	WI	53050	(920) 387-3642
	Marks Home Yard Services	1235 Waube Lane	Green Bay	WI	54304	(920) 366-5406
12454	Mary's Trucking Inc.	3759 Robert Nelson Lane	Deerfield	WI	53531	(608) 764-8301
14073	Mayville Home Improvement	11 High Street	Mayville	WI	53050	(920) 387-4720
	Michael Benzing	N2475 Highway 67	Neosho	WI	53059	(920) 386-2516
14152	Mid Valley Industrial Services Inc.	718 Industrial Park Avenue	Hortonville	WI	54944	(920) 779-9955
15479	Midwest Transfer & Logistics, LLC	300 Raemisch Road, Unit 2	Waunakee	WI	53597	(847) 426-6354
15480	Mittelstadt Inc.	W1587 County Road H	Lomira	WI	53048	(920) 269-4268
	New Berlin Grading Inc.	19400 West Lincoln Avenue	New Berlin	WI	53146	(262) 542-1772
	Nickel's Carpentry	W1616 Raccoon Road	Theresa	WI	53091	(920) 948-3542
12361	North Shore Environmental Construction	N117 W18493 Fulton Drive	Germantown	WI	53022	(262) 255-4468
	Northstar Environmental	417 North Blythe Street	Gallatin	TN	37066	(615) 451-4867
15182	RAMS Contracting Ltd.	W193 N7700 Becker Drive	Lannon	WI	53046	(262) 251-4209
12382	Robbie D. Wood Inc.	1051 Old Warrior River Road	Dolomite	AL	35061	(800) 356-7457
15408	Robinson Brothers Environmental	220 Raemisch Road	Waunakee	WI	53597	(608) 849-6980
	Rock River Home Improvements	N4525 North Hazelwood Road	Hustisford	WI	53034	(920) 349-8335
15449	Schmitt Challenges	W9699 Cty Tk S	Beaver Dam	WI	53916	(920) 887-2337
	Semper FI Roofing	1400 Ellis Street	Waukesha	WI	53186	(414) 544-4885
16405	SGS Environmental Contracting LLC	N2570 Daytona Drive	Merrill	WI	54452	(715) 539-2803
13826	Sorce Services LLC	7619 Nordale Avenue	Franksville	WI	53126	(262) 895-3200
	Strieter Farms	925 East Division Street	Watertown	WI	53094	(920) 925-3060
14793	Synagro Central LLC	973 North Saunders Drive	Oconto Falls	WI	54154	(920) 373-5521
	Town of Burnett	W6273 Park Drive	Burnett	WI	53922	(920) 885-5529
	Town of Lomira	N11392 County Road AY	Brownsville	WI	53006	(920) 583-2600
	Town of Rubicon	P O Box 105	Rubicon	WI	53078	(920) 673-3413
12480	Town & Country Sanitation	101 North Park Street	Boscobel	WI	53805	(920) 373-5521
10958	Town & Country Underground Utility	W2899 Dunn Road	Mayville	WI	53050	(920) 387-2394
	Trans Environmental	8184 Starwood Drive	Loves Park	IL	61111	(815) 885-4840
	Twin Lakes Transit	103 Jennifer Lane	Eden	WI	53019	(920) 477-5301
	United Liquid Waste	P.O. Box 247	Clyman	WI	53016	(920) 696-3248
15533	Valley Hydro-Excavation LLC	N2496 Highway 45	Campbellsport	WI	53010	(920) 533-5927
13783	Veolia ES Industrial Services - Germantown	N104 W13275 Donges Bay Road	Germantown	WI	53022	(262) 512-8002
13783	Veolia ES Industrial Services - Sheboygan	2905 Paine Avenue	Sheboygan	WI	53082	(920) 458-6030
13800	Veolia ES Technical Solutions - Menomonee Falls	W124 N9451 Boundry Road	Menomonee Falls	WI	53051	(800) 255-5092
	Village of Hartland	210 Cottonwood Avenue	Hartland	WI	53029	(262) 367-2714
14023	Village of Hustisford	P.O. Box 345	Hustisford	WI	53034	(920) 349-3188
	Village of Iron Ridge	P O Box 247	Iron Ridge	WI	53035	(920) 387-3975
10798	Village of Lomira	549 Church Street	Lomira	WI	53048	(920) 269-8155
13228	W D Navis	N2747 Highway 26	Waupun	WI	53963	(920) 324-9541
13173	Washington County Highway Department	900 Lang Street	West Bend	WI	53090	(262) 335-4435
15702	Woldt Farms	N9594 County Road PP	Brillion	WI	54110	(414) 371-7737
	Wondra Construction Inc.	W2874 Graylog Road	Iron Ridge	WI	53035	(920) 387-5840

Advanced Disposal

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

N7296 Highway V
Horicon, WI 53032
Telephone: (920) 387-0987
Fax: (920) 387-0980
glacierridge@advanceddisposal.com
WDNR Facility ID #114063950; License #03068

Facility Managers

Jacob A. Margelofsky
Certification Number: 70987
Beginning June 2, 2016 and Expiring June 1, 2018

Jared A. Ross
Certification Number: 71387
Beginning August 10, 2016 and Expiring August 1, 2018

Site Operators

Frederic B. Benishek
Certification Number: 71301
Beginning November 2, 2015 and Expiring November 1, 2017

Jeffrey S. Ross
Certification Number: 70377
Beginning October 2, 2015 and Expiring October 1, 2017

Willis T. Sage Jr.
Certification Number: 70362
Beginning October 2, 2015 and Expiring October 1, 2017

The State of Wisconsin Department of Natural Resources

JACOB A MARGELOFSKY
318 KRIESER DR
MAYVILLE WI 53050

This certificate recognizes that

JACOB A MARGELOFSKY

Certification No: 70987

has met the requirements of Ch. NR 524,
Wis. Adm. Code, as a certified operator:

Solid Waste Disposal Facility Operator Certification

FACILITY MANAGER

Certification begins on **June 2, 2016** and expires on **June 1, 2018**

For renewal of this certificate, you will need **8 continuing education hours** before this certificate expires.

Cathy Stepp, Secretary
Department of Natural Resources

Printed on 07/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

The State of Wisconsin Department of Natural Resources

JARED A ROSS
111 KNAUP DRIVE #15
BEAVER DAM WI 53916

This certificate recognizes that

JARED A ROSS

Certification No: 71387

has met the requirements of Ch. NR 524,
Wis. Adm. Code, as a certified operator:

Solid Waste Disposal Facility Operator Certification

FACILITY MANAGER

Certification begins on **August 10, 2016** and expires on **August 1, 2018**

For renewal of this certificate, you will need **8 continuing education hours** before this certificate expires.

Cathy Stepp, Secretary
Department of Natural Resources

Printed on 02/24/17

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

The State of Wisconsin Department of Natural Resources

FREDERIC B BENISHEK
W3108 WEST NEDA RD
IRON RIDGE WI 53035

This certificate recognizes that

FREDERIC B BENISHEK

Certification No: 71301

has met the requirements of Ch. NR 524,
Wis. Adm. Code, as a certified operator:

Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on **November 2, 2015** and expires on **November 1, 2017**

For renewal of this certificate, you will need **4 continuing education hours** before this certificate expires.

Cathy Stepp, Secretary
Department of Natural Resources

Printed on 01/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

The State of Wisconsin Department of Natural Resources

JEFFREY S ROSS
205 RICH ST
HORICON WI 53032

This certificate recognizes that

JEFFREY S ROSS

Certification No: 70377

has met the requirements of Ch. NR 524,
Wis. Adm. Code, as a certified operator:

Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on **October 2, 2015** and expires on **October 1, 2017**

For renewal of this certificate, you will need **4 continuing education hours** before this certificate expires.

Cathy Stepp, Secretary
Department of Natural Resources

Printed on 01/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

The State of Wisconsin Department of Natural Resources

WILLIS T SAGE JR
N7480 MUHLE CT
BEAVER DAM WI 53916

This certificate recognizes that

WILLIS T SAGE JR

Certification No: 70362

has met the requirements of Ch. NR 524,
Wis. Adm. Code, as a certified operator:

Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on **October 2, 2015** and expires on **October 1, 2017**

For renewal of this certificate, you will need **4 continuing education hours** before this certificate expires.

Cathy Stepp, Secretary
Department of Natural Resources

Printed on 01/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

Calendar Year 2016 Waste Disposal Tonnage/Capacity Certification Report
Supplemental Data Table A

Name of Landfill: Advanced Disposal Services Glacier Ridge Landfill, LLC
Landfill License Number: 03068
Landfill FID Number: 114063950

Est. Capacity Jan. 2016: **8,200,484**

Category Number	Waste Type – Category Name	Total 2016 Tonnages	Conv. Factor (See Instructions for Conversion Factors)	Volume-CU Yds
1	MUNICIPAL SOLID WASTE (Household and Commercial Sources)	376,097	1,200	626,828
2	ASHES AND SLUDGES FROM ELECTRIC AND PROCESS STEAM GENERATING FACILITIES - EXEMPT FROM RECYCLING FEE	0	2,400	0
3	PULP OR PAPERMILL SLUDGES PRODUCED BY WASTE TREATMENT OR MFG PROCESSES - EXEMPT FROM RECYCLING FEE	62,231	2,200	56,574
4	MANUFACTURING SOLID WASTE PRODUCED FROM FOUNDRIES - EXEMPT FROM RECYCLING FEE	9,204	3,000	6,136
5	SLUDGES PRODUCED BY MUNICIPAL WASTEWATER TREATMENT PLANTS	6,901	1,684	8,196
6	ALL OTHER SOLID WASTES NOT DESIGNATED AS HAZARDOUS WASTE AND DO NOT FIT INTO CATEGORY 1 THROUGH 5 OR CATEGORY 19 THROUGH 29	34,793	1,200	57,988
19	WASTE USED AS DAILY COVER, BERMS, DIKES, ETC. – EXEMPT FROM ALL ENVIRONMENTAL FEES	50,024	2,000	50,024
20	ASH FROM INCINERATION FOR ENERGY RECOVERY - EXEMPT FROM RECYCLING FEE	0	2,400	0
21	HIGH VOLUME WASTE USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES	0	2,000	0
22	SHREDDER FLUFF USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES	7,780	2,000	7,780
23	PETROLEUM CONTAMINATED SOILS USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES	1,810	3,000	1,207
24	WASTE MATERIAL THAT IS REMOVED FROM RECYCLED MATERIALS INTENDED FOR USE AS RECYCLED FIBER BY A PERSON THAT MAKES PAPER, PULP, OR PAPERBOARD FROM WASTEPAPER, IF THE WASTE MATERIAL CANNOT BE USED TO MAKE PAPER, PULP, OR PAPERBOARD -EXEMPT FROM RECYCLING FEE	32	2,200	29
25	CONSTRUCTION & DEMOLITION (C&D) WASTE - SUBJECT TO ALL THE SAME FEE CATEGORIES AS CATEGORY 1 WASTE	28,464	1,250	45,542
26	SEDIMENTS CONTAMINATED WITH PCBs THAT MEET THE CRITERIA IN s. 289.645(4)(d), & s. 289.67(1)(cv), WIS STATS. - EXEMPT FROM RECYCLING FEE	0	2,000	0
27	WASTE GENERATED BY A NONPROFIT ORGANIZATION THAT MEETS THE CRITERIA IN S. 289.645(4)(b), WIS. STATS. - EXEMPT FROM RECYCLING FEE	9,348	1,200	15,579
28	SOLID WASTE MATERIALS GENERATED AS A RESULT OF A NATURAL DISASTER THAT MEET THE CRITERIA IN S. 289.63(6)(B), 289.64(4)(B), 289.645(4)(F) & 289.67(1)(FM), WIS. STATS. - EXEMPT FROM ALL ENVIRONMENTAL FEES. (EFFECTIVE JULY 1, 2011)	0	1,250	0
29	WASTE REMOVED AT THE REQUEST OF THE DNR IN ORDER TO MITIGATE POTENTIAL ENVIRONMENTAL IMPACTS IN ACCORDANCE WITH S. 289.675, WIS. STATS. (EFFECTIVE APR8L 25, 2014)	54	3,000	36
30	Solid waste materials generated by a qualified materials recovery facility (QMRF) as described in s. 289.63(6)(d)1.a, s. 289.64(4)(d)1.a, s. 289.645(4)(h)1.a. and s. 289.67(fj)1.a. in an amount equal to the weight of the residue generated by the QMRF or 10% of the total weight of material accepted by the QMRF, whichever is less. (Effective January 1, 2015) Residues that exceed the 10% cap should be reported as Category 1 Waste.	881	1,250	1,409
31	Solid waste materials generated by a qualified materials recovery facility (QMRF) as described in s. 289.63(6)(d)1.b., s. 289.64(4)(d)1.b, s. 289.645(4)(h)1.b. and s. 289.67(fj)1.b. in an amount equal to the weight of the residue generated by the QMRF or 30% of the total weight of material accepted by the QMRF, whichever is less. (Effective January 1, 2015) Residues that exceed the 30% cap should be reported as Category 25 wastes.	8,801	1,250	14,082
	Totals	**596,418**		**891,409**

Est. Remaining Site Life in Years: 8

Est. Capacity Jan. 2017: **7,309,075**

Note: The tonnage reported in category 29 represents disposal of C & D like material, which disposal expense was paid with WDNR funds.

Calendar Year 2016 Out of State WasteTonnage Report
Supplemental Data Table B

Name of Landfill: Advanced Disposal Services Glacier Ridge Landfill, LLC
Landfill License Number: 03068
Landfill FID Number: 114063950

Waste Categories

State of Orgin	Community		Cat. 1 Tons	Cat. 2 Tons	Cat. 3 Tons	Cat. 4 Tons	Cat. 5 Tons	Cat. 6 Tons	Cat. 19 Tons	Cat. 20 Tons	Cat. 21 Tons	Cat. 22 Tons	Cat. 23 Tons	Cat. 24 Tons	Cat. 25 Tons	Cat. 26 Tons	Cat. 27 Tons	Cat. 28 Tons	Cat. 29 Tons	Cat. 30 Tons	Cat. 31 Tons	Totals
IA	Monona											1005.49										**1005.49**
IA	Charles City						1367.82	85.17														**1452.99**
																						0
																						0
																						0
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	Waste Category Totals		**0**	**0**	**0**	**0**	**1367.82**	**85.17**	**0**	**0**	**0**	**1005.49**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2458.48**

Attachment A-3

Shredder Fluff Analytical Data

Advanced Disposal

December 2, 2015

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys, Controller

Re: Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 12/02/15 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:	Clayton County Recycling
Address of Waste Generated:	11645 Echo Avenue, Monona, IA 52129
Waste Stream:	Fluff, Shredded Auto Residue
Waste Category:	26A
Profile Number:	GRL 07027
Profile Recertification Date:	02/18/16 (See attached)
Waste Disposal Method:	Direct

Please note the special conditions for acceptance are as follows:

1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
3. All loads must be properly tarped and hauled by a licensed transporter.
4. **PCB leachability will need to be run for the next recertification.**

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter
Administrative Assistant

JFW/smr
Attachment

Approval Review Form

Landfill Used for Disposal: Seven Mile Creek/ Glacier Ridge/ Cranberry Creek GRL 07037

Generator Name: Clayton county Profile Number: ACC

Waste Name: Fluff

Has a completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	☒	☐	☐
Acceptable Waste Name and Process Generating the Waste	☒	☐	☐
Waste is Non-Hazardous	☒	☐	☐
Acceptable Composition and Physical Characteristics	☒	☐	☐
Complete Sample Information and/or MSDSs	☒	☐	☐
Properly Signed by the Generator	☒	☐	☐
State Approval Required and Granted	☐	☐	☒

Waste Category: 26 02 Disposal Method: b

Recertification Date: ~~11~~/18/16 (see attached)

Frequency of Testing: Parameters to be Tested:

Conditions of Approval:

Based on a review of the information submitted by the generator the above referenced waste is acceptable for disposal.

Veolia Technical Solutions Signature: Date: 12-2-15

Landfill General Manager Signature: Date: 12/2/15

Landfill General Manager Printed Name: Leon P. Walter

cc: Regional Landfill Operations Manager

Jayne Walter

From: Bechard, Tim <tim.bechard@veolia.com>
Sent: Wednesday, December 02, 2015 1:24 PM
To: Jayne Walter; Dean Besiada
Subject: Clayton county

It is approved untill 2/18/16 not 11

Tim Bechard
Approvals Coordinator
Veolia ES Technical Solutions, L.L.C.
1275 Minaeral Springs Drive
Port Washington, WI 53074
(262) 243-8903
(262) 268-1962
tim.bechard@veolia.com

Jayne Walter

From: Tim Bechard <tim.bechard@veolia.com>
Sent: Wednesday, December 02, 2015 12:14 PM
To: James Davis; Dean Besiada; Jayne Walter
Subject: Message from "RNP0026737DDF02"
Attachments: 20151202131424288.pdf

This E-mail was sent from "RNP0026737DDF02" (MP C6502).

Scan Date: 12.02.2015 13:14:24 (-0500)
Queries to: noreply@veolia.com

Advanced Disposal

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys

Re: Special Waste Profile #GRL 07027 – Disposal of Auto Shredder Fluff and Fines

Dear Gina:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. **If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.**

1. Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any additional analysis that may have been performed on the waste.

2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, **together with an updated analytical report for this material.**

I have reviewed the process generating the waste and the information submitted to obtain the original disposal approval. Based on this review, I certify that no changes have occurred in the process generating the waste or the materials used in the process, and the information originally submitted continues to be representative of the waste.

Gina Roys — Signature
12.15 — Date
Gina Roys — Printed Name
Controller — Title

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,
ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

By Jayne Rae Walter

Jayne Rae Walter
Administrative Assistant

Enclosure

_____
Approvals Signature and Date

_____
Landfill Signature and Date

Recertification Date: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-69122-1
Client Project/Site: 110615 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
11/30/2015 9:03:39 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Clayton County Recycling
Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Job ID: 310-69122-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-69122-1

Comments
No additional comments.

Receipt
The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110615 PM (310-69122-1). The client was contacted regarding this issue.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109066, the temperature 20.4-22.7 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110615 PM (310-69122-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-69122-1	110615 PM	Solid	11/06/15 00:00	11/16/15 08:50

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69122-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		11/17/15 12:04	11/18/15 14:09	1
Barium	<0.500		0.500		mg/L		11/17/15 12:04	11/18/15 14:09	1
Cadmium	**0.0275**		0.0200		mg/L		11/17/15 12:04	11/18/15 14:09	1
Chromium	<0.0200		0.0200		mg/L		11/17/15 12:04	11/18/15 14:09	1
Lead	<0.100		0.100		mg/L		11/17/15 12:04	11/18/15 14:09	1
Selenium	<0.150		0.150		mg/L		11/17/15 12:04	11/18/15 14:09	1
Silver	<0.0200		0.0200		mg/L		11/17/15 12:04	11/18/15 14:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/17/15 12:07	11/17/15 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**4130**		200		BTU/lb			11/27/15 13:51	1
Flashpoint	**>215**		40.0		Degrees F			11/17/15 15:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.34**	**H**	0.100		SU			11/17/15 12:51	1

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69122-1
Matrix: Solid
Percent Solids: 92.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1221	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1232	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1242	**0.769**		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1248	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1254	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1260	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1
PCB-1268	<0.640		0.640		mg/Kg	☼	11/18/15 12:23	11/19/15 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*10 - 110*	*11/18/15 12:23*	*11/19/15 18:46*	*1*
Tetrachloro-m-xylene	*55*		*10 - 110*	*11/18/15 12:23*	*11/19/15 18:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**795**		89.3		mg/Kg	☼	11/19/15 14:31	11/23/15 10:19	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69122-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			109066	11/16/15 07:47	EEE	TAL CF
TCLP	Prep	3010A			109133	11/17/15 12:04	SAD	TAL CF
TCLP	Analysis	6010C		1	109366	11/18/15 14:09	OAD	TAL CF
TCLP	Leach	1311			109066	11/16/15 07:47	EEE	TAL CF
TCLP	Prep	7470A			109134	11/17/15 12:07	SAD	TAL CF
TCLP	Analysis	7470A		1	109204	11/17/15 15:23	SAD	TAL CF
Soluble	Leach	DI Leach			108755	11/17/15 10:45	SAS	TAL CF
Soluble	Analysis	9045D		1	109170	11/17/15 12:51	SAS	TAL CF
Total/NA	Analysis	D240-87		1	302101	11/27/15 13:51	YSJ	TAL NSH
Total/NA	Analysis	D92		1	109185	11/17/15 15:02	JCF	TAL CF

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69122-1

Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			109340	11/18/15 12:23	EEE	TAL CF
Total/NA	Analysis	8082A		1	109539	11/19/15 18:46	BKT	TAL CF
Total/NA	Prep	9023			299155	11/19/15 14:31	CLJ	TAL NSH
Total/NA	Analysis	9023		1	299452	11/23/15 10:19	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

310-69122 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co.

City/State: | Project:

Receipt Information

Date/Time Received: 11/6/15 850 | Received By: TG

Delivery Type: ☑ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: ____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☐ Yes ☑ No	*If yes:* Cooler ID:	
Multiple Coolers?	☐ Yes ☑ No	*If yes:* Cooler # ____ of ____	
Cooler Custody Seals Present?	☐ Yes ☑ No	*If yes:* Cooler custody seals intact?	☐ Yes ☑ No
Sample Custody Seals Present?	☐ Yes ☑ No	*If yes:* Sample custody seals intact?	☐ Yes ☑ No
Trip Blank Present?	☐ Yes ☑ No	*If yes:* Which VOA samples are in cooler? ↓	

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ____ ☑ NONE

Temperature Blank? ☐ Yes ☑ No ID & Bottle Type: plastic bag - 1106 [illegible]

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 6 | Correction Factor (°C): +0.1

Uncorrected Temp (°C): 13.8 | Corrected Temp (°C): 13.9

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11604.5 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 110615 PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	* Flashpoint	* Chloride	* BTU	* pH	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:			Laboratory Comments:		
[signature]	11-16-15	850						

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica

11/30/2015

Client Information (Sub Contract Lab)	Sampler	Lab PM: Brown, Shali	Carrier Tracking No(s)	COC No: 310-5676.1
Client Contact: Shipping/Receiving	Phone	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 310-69122-1

Address: 2960 Foster Creighton Drive,	Due Date Requested: 11/27/2015
City: Nashville	TAT Requested (days):
State, Zip: TN, 37204	PO #:
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	WO #:
Email:	Project #: 31001320
Project Name: 110615 PM	SSOW#:
Site:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
110615 PM (310-69122-1)	11/6/15	Central		Solid			X	X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 11/6/15 1607	Company	Received by: 2.0	Date/Time: 11-17-15 10:15	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 310
69122

Cooler Received/Opened On: 11/17/2015 @1015

1. Tracking # 3854 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? YES..(NO)..NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (Intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..# _____

BIS = Broken in shipment

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69122-1

Login Number: 69122
List Number: 1
Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice per client request.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No date or time on COC or containers.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69122-1

Login Number: 69122
List Number: 2
Creator: Ford, Easton

List Source: TestAmerica Nashville
List Creation: 11/17/15 11:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-69119-1
Client Project/Site: 110915 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
11/30/2015 9:01:59 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Job ID: 310-69119-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-69119-1

Comments
No additional comments.

Receipt
The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110915 (310-69119-1). The client was contacted regarding this issue.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) 9023: The following sample was diluted at prep due to the nature of the sample matrix: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109178, the temperature 19.0-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-69119-1	110915	Solid	11/09/15 00:00	11/16/15 08:50

Client Sample ID: 110915
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69119-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		11/19/15 11:41	11/24/15 15:25	2
Barium	<1.00		1.00		mg/L		11/19/15 11:41	11/24/15 15:25	2
Cadmium	**0.0414**		0.0400		mg/L		11/19/15 11:41	11/24/15 15:25	2
Chromium	<0.0400		0.0400		mg/L		11/19/15 11:41	11/24/15 15:25	2
Lead	<0.200		0.200		mg/L		11/19/15 11:41	11/24/15 15:25	2
Selenium	<0.300		0.300		mg/L		11/19/15 11:41	11/24/15 15:25	2
Silver	<0.0400		0.0400		mg/L		11/19/15 11:41	11/24/15 15:25	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/19/15 11:47	11/20/15 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**4500**		200		BTU/lb			11/27/15 12:37	1
Flashpoint	**>215**		40.0		Degrees F			11/17/15 15:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.37**	**H**	0.100		SU			11/17/15 12:52	1

Client Sample ID: 110915
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69119-1
Matrix: Solid
Percent Solids: 80.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1221	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1232	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1242	**0.755**		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1248	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1254	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1260	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1
PCB-1268	<0.293		0.293		mg/Kg	☼	11/17/15 14:19	11/18/15 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*10 - 110*	*11/17/15 14:19*	*11/18/15 16:42*	*1*
Tetrachloro-m-xylene	*50*		*10 - 110*	*11/17/15 14:19*	*11/18/15 16:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	<73.7		73.7		mg/Kg	☼	11/19/15 14:31	11/23/15 10:19	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Client Sample ID: 110915
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69119-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			109178	11/18/15 14:18	EEE	TAL CF
TCLP	Prep	3010A			109504	11/19/15 11:41	JNR	TAL CF
TCLP	Analysis	6010C		2	110221	11/24/15 15:25	OAD	TAL CF
TCLP	Leach	1311			109178	11/18/15 14:18	EEE	TAL CF
TCLP	Prep	7470A			109508	11/19/15 11:47	SAD	TAL CF
TCLP	Analysis	7470A		1	109687	11/20/15 10:36	SAD	TAL CF
Soluble	Leach	DI Leach			108755	11/17/15 10:45	SAS	TAL CF
Soluble	Analysis	9045D		1	109170	11/17/15 12:52	SAS	TAL CF
Total/NA	Analysis	D240-87		1	302101	11/27/15 12:37	YSJ	TAL NSH
Total/NA	Analysis	D92		1	109185	11/17/15 15:02	JCF	TAL CF

Client Sample ID: 110915
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69119-1
Matrix: Solid
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			108983	11/17/15 14:19	EEE	TAL CF
Total/NA	Analysis	8082A		1	109330	11/18/15 16:42	BKT	TAL CF
Total/NA	Prep	9023			299155	11/19/15 14:31	CLJ	TAL NSH
Total/NA	Analysis	9023		1	299452	11/23/15 10:19	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

310-69119 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co.

City/State: | Project:

Receipt Information

Date/Time Received: 11/16/... 8:50 | Received By: [illegible]

Delivery Type: [X] UPS [ ] FedEx [ ] FedEx Ground [ ] US Mail [ ] Spee-Dee
[ ] TA Courier [ ] TA Field Services [ ] Client Drop-off [ ] Other:________

Condition of Cooler/Containers

Sample(s) received in Cooler?	[ ] Yes	[X] No	*If yes:* Cooler ID:
Multiple Coolers?	[ ] Yes	[X] No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	[ ] Yes	[X] No	*If yes:* Cooler custody seals intact? [ ] Yes [X] No
Sample Custody Seals Present?	[ ] Yes	[X] No	*If yes:* Sample custody seals intact? [ ] Yes [X] No
Trip Blank Present?	[ ] Yes	[X] No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: [ ] Wet ice [ ] Blue ice [ ] Dry ice [ ] Other:________ [X] NONE

Temperature Blank? [ ] Yes [X] No ID & Bottle Type: Plastic bag - 1106... [illegible]

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 6	Correction Factor (°C): +0.1
Uncorrected Temp (°C): 13.8	Corrected Temp (°C): 13.9

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? [ ] Yes [ ] No
   a) *If yes:* Is there evidence that the chilling process began? [ ] Yes [ ] No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) [ ] Yes [ ] No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Document: CF-LG-WI-002
Revision: 21
Date: 7/28/2015

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 110915 PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	RTUL	pH	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time

Shipped Via:	Comments:	Shipped Via:

Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:
Ashley A Worthy	11-16-15	850		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-5676 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		**Analysis Requested**		Job #: 310-69119-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 11/27/2015			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 110915 PM	Project #: 31001320			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
110915 (310-69119-1)	11/9/15	Central		Solid			X	X	1	

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ____ Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 11/6 15 1637	Company	Received by: [signature] 2.0	Date/Time: 11-17-15 10:15	Company: TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 310
69119

COOLER RECEIPT FORM

Cooler Received/Opened On: 11/17/2015 @1015

1. Tracking # 3854 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? YES..(NO)..NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO..(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..NA

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69119-1

Login Number: 69119
List Number: 1
Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69119-1

Login Number: 69119
List Number: 2
Creator: Ford, Easton

List Source: TestAmerica Nashville
List Creation: 11/17/15 11:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-69121-1
Client Project/Site: 110915 AM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
11/30/2015 9:02:19 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Job ID: 310-69121-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-69121-1

Comments
No additional comments.

Receipt
The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110915 AM (310-69121-1). The client was contacted regarding this issue.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 9023: The following sample was diluted at prep due to the nature of the sample matrix: 110915 AM (310-69121-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110915 AM (310-69121-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109178, the temperature 19.0-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-69121-1	110915 AM	Solid	11/09/15 00:00	11/16/15 08:50

Client Sample ID: 110915 AM
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69121-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		11/19/15 11:41	11/20/15 01:05	1
Barium	<0.500		0.500		mg/L		11/19/15 11:41	11/20/15 01:05	1
Cadmium	**0.0248**		0.0200		mg/L		11/19/15 11:41	11/20/15 01:05	1
Chromium	**0.0583**		0.0200		mg/L		11/19/15 11:41	11/20/15 01:05	1
Lead	**0.164**		0.100		mg/L		11/19/15 11:41	11/20/15 01:05	1
Selenium	<0.150		0.150		mg/L		11/19/15 11:41	11/20/15 01:05	1
Silver	<0.0200		0.0200		mg/L		11/19/15 11:41	11/20/15 01:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/19/15 11:47	11/20/15 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**3970**		200		BTU/lb			11/27/15 13:34	1
Flashpoint	**>215**		40.0		Degrees F			11/17/15 15:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.32**	**H**	0.100		SU			11/17/15 13:02	1

Client Sample ID: 110915 AM
Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69121-1
Matrix: Solid
Percent Solids: 79.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1221	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1232	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1242	**0.817**		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1248	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1254	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1260	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1
PCB-1268	<0.310		0.310		mg/Kg	☼	11/17/15 14:19	11/18/15 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 110*	*11/17/15 14:19*	*11/18/15 16:53*	*1*
Tetrachloro-m-xylene	*44*		*10 - 110*	*11/17/15 14:19*	*11/18/15 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	<91.5		91.5		mg/Kg	☼	11/19/15 14:31	11/23/15 10:19	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69121-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			109178	11/18/15 14:18	EEE	TAL CF
TCLP	Prep	3010A			109504	11/19/15 11:41	JNR	TAL CF
TCLP	Analysis	6010C		1	109645	11/20/15 01:05	OAD	TAL CF
TCLP	Leach	1311			109178	11/18/15 14:18	EEE	TAL CF
TCLP	Prep	7470A			109508	11/19/15 11:47	SAD	TAL CF
TCLP	Analysis	7470A		1	109687	11/20/15 10:37	SAD	TAL CF
Soluble	Leach	DI Leach			108755	11/17/15 10:45	SAS	TAL CF
Soluble	Analysis	9045D		1	109170	11/17/15 13:02	SAS	TAL CF
Total/NA	Analysis	D240-87		1	302101	11/27/15 13:34	YSJ	TAL NSH
Total/NA	Analysis	D92		1	109185	11/17/15 15:02	JCF	TAL CF

Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00
Date Received: 11/16/15 08:50

Lab Sample ID: 310-69121-1

Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			108983	11/17/15 14:19	EEE	TAL CF
Total/NA	Analysis	8082A		1	109330	11/18/15 16:53	BKT	TAL CF
Total/NA	Prep	9023			299155	11/19/15 14:31	CLJ	TAL NSH
Total/NA	Analysis	9023		1	299452	11/23/15 10:19	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co.

City/State: | Project:

Receipt Information

Date/Time Received: 11/6/ 8:50 | Received By: JG

Delivery Type: ☑ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☐ Yes	☑ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☑ No
Sample Custody Seals Present?	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☑ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☑ NONE

Temperature Blank? ☐ Yes ☑ No ID & Bottle Type: Plastic bag - 1106 25 Pm

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 6 | Correction Factor (°C): +0.1

Uncorrected Temp (°C): 13.8 | Corrected Temp (°C): 13.9

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 11604.5 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 110915 AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	PH						RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X									

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Ashley A Worth	Date 11/6/15	Time 850	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica

11/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-5676.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 310-69121-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 11/27/2015			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 110915 AM	Project #: 31001320			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
110915 AM (310-69121-1)	11/9/15	Central		Solid			X	X	1	

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/16/15 1637	Company	Received by: 2.0	Date/Time: 11-17-15 10:15	Company TAN
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 310
69121

Cooler Received/Opened On: 11/17/2015 @1015

1. Tracking # 3854 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? YES..(NO)..NA

If yes, how many and where: Ø

5. Were the seals intact, signed, and dated correctly? YES...NO..(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69121-1

Login Number: 69121
List Number: 1
Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice per client request.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample ID, Date, or Time
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69121-1

Login Number: 69121
List Number: 2
Creator: Ford, Easton

List Source: TestAmerica Nashville
List Creation: 11/17/15 11:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Advanced Disposal

March 7, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys, Controller

Re: Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 02/29/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:	Clayton County Recycling
Address of Waste Generated:	11645 Echo Avenue, Monona, IA 52129
Waste Stream:	Fluff, Shredded Auto Residue
Waste Category:	26A
Profile Number:	GRL 07027
Profile Recertification Date:	05/11/16
Waste Disposal Method:	Direct

Please note the special conditions for acceptance are as follows:

1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter
Administrative Assistant

JFW/smr
Attachment

Advanced Disposal

February 25, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys

Re: Special Waste Profile #GRL 07027 -- Disposal of Auto Shredder Fluff and Fines
+ ASM

Dear Gina:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. **If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.**

1. Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any additional analysis that may have been performed on the waste.

2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, **together with an updated analytical report for this material.**

I have reviewed the process generating the waste and the information submitted to obtain the original disposal approval. Based on this review, I certify that no changes have occurred in the process generating the waste or the materials used in the process, and the information originally submitted continues to be representative of the waste.

Gina Roys — Signature
2.26.16 — Date
Gina Roys — Printed Name
Controller — Title

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,
ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

By C. Jayne Rae Walter

Jayne Rae Walter
Administrative Assistant

Enclosure

2-29-16
Approvals Signature and Date

2-29-16
Landfill Signature and Date

Recertification Date: 5-11-16

N7296 Highway V Horicon, WI 53032 Telephone: (920) 387-0987 Fax: (920) 387-0980
AdvancedDisposal.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-73991-1
Client Project/Site: 020516 AM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
2/23/2016 12:14:37 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 310-73991-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-73991-1

Comments
No additional comments.

Receipt
The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020516 AM (310-73991-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020516 AM (310-73991-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-73991-1	020516 AM	Solid	02/05/16 00:00	02/09/16 08:50

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1221	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1232	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1242	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1248	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1254	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1260	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
PCB-1268	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1
Polychlorinated biphenyls, Total	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*10 - 110*	*02/18/16 13:24*	*02/22/16 12:06*	*1*
Tetrachloro-m-xylene	*71*		*10 - 110*	*02/18/16 13:24*	*02/22/16 12:06*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.900		0.900		mg/L		02/11/16 10:11	02/11/16 20:59	3
Barium	<1.50		1.50		mg/L		02/11/16 10:11	02/11/16 20:59	3
Cadmium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:59	3
Chromium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:59	3
Lead	<0.300		0.300		mg/L		02/11/16 10:11	02/11/16 20:59	3
Selenium	<0.450		0.450		mg/L		02/11/16 10:11	02/11/16 20:59	3
Silver	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:59	3

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		02/15/16 10:08	02/16/16 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**6230**		200		BTU/lb			02/18/16 09:35	1
Flashpoint	**>215**		40.0		Degrees F			02/17/16 15:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.44**		0.100		SU			02/10/16 14:48	1

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1
Matrix: Solid
Percent Solids: 87.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1221	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1232	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1242	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1248	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1254	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1260	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1
PCB-1268	<0.266		0.266		mg/Kg	☼	02/09/16 14:23	02/19/16 13:00	1

Client: Clayton County Recycling
Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Client Sample ID: 020516 AM
Date Collected: 02/05/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1
Matrix: Solid
Percent Solids: 87.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	89		10 - 110	02/09/16 14:23	02/19/16 13:00	1
Tetrachloro-m-xylene	65		10 - 110	02/09/16 14:23	02/19/16 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	106		54.9		mg/Kg	☼	02/16/16 10:30	02/17/16 11:16	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			117897	02/17/16 17:28	CK1	TAL CF
TCLP	Prep	3510C			118011	02/18/16 13:24	DLK	TAL CF
TCLP	Analysis	8082A		1	118263	02/22/16 12:06	BKT	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	3010A			117368	02/11/16 10:11	JNR	TAL CF
TCLP	Analysis	6010C		3	117440	02/11/16 20:59	OAD	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	7470A			117557	02/15/16 10:08	SAD	TAL CF
TCLP	Analysis	7470A		1	117766	02/16/16 13:14	SAD	TAL CF
Soluble	Leach	DI Leach			117316	02/10/16 13:00	SAS	TAL CF
Soluble	Analysis	9045D		1	117317	02/10/16 14:48	SAS	TAL CF
Total/NA	Analysis	D240-87		1	318243	02/18/16 09:35	JAB	TAL NSH
Total/NA	Analysis	D92		1	117888	02/17/16 15:47	JCF	TAL CF

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			117225	02/09/16 14:23	QRA	TAL CF
Total/NA	Analysis	8082A		1	118124	02/19/16 13:00	BKT	TAL CF
Total/NA	Prep	9023			317743	02/16/16 10:30	ADN	TAL NSH
Total/NA	Analysis	9023		1	317752	02/17/16 11:16	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

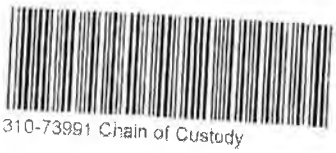
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING


310-73991 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona, IA | Project:

Receipt Information

Date/Time Received: 2/9/16 8:50 | Received By: AM

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type:

Note: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID:	Correction Factor (°C):
Uncorrected Temp (°C):	Corrected Temp (°C):

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☒ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

Note: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: D20516AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@crecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP Metals	Flashpoint	Chloride	BTU	pH		PCB (Leachability)		RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
D20516AM																					*	*	*	*	*	*		*						

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
***NOTICE:* Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Shawna Leath	Date 2-4-16	Time 8:50	Temperature Upon Receipt:			Laboratory Comments:		

Page 12 of 16

2/23/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

310-73991 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 2.12.16 @ 0935

Time Samples Removed From Cooler 2.15.16 @ 1547 Time Samples Placed In Storage 1717 (2 Hour Window)

1. Tracking # 7277 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18290455~~ 17960357 pH Strip Lot ~~HC554612~~ HC559158 Chlorine Strip Lot 072815A

mam 2.11.16 mam 2.11.16

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: N/A

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AES

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) mam

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mam

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mam

I certify that I attached a label with the unique LIMS number to each container (intial) mam

21. Were there Non-Conformance Issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

'om: Brown, Shali

ent: Wednesday, February 10, 2016 5:34 PM

): Facciani, Melene; Jeffrey Lambert

ubject: Clayton County Samples Workshare from Cedar Falls to Nashville

Loc: 310
73991

llo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

'ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them ar
at the jobs are.

0- 310 - 73977
977 83
983 88
988 90
990 91
991 93
993

anks,
ali

Recd by: [signature] TAW 2/12/16 @ 0935
0.0c

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-73991-1

Login Number: 73991
List Number: 1
Creator: Leitz, Gemma H

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

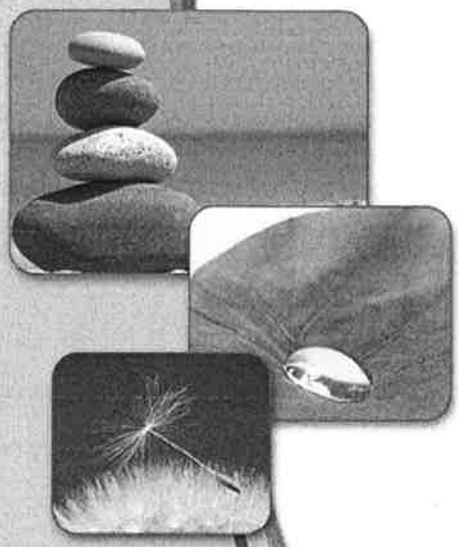
Client: Clayton County Recycling

Job Number: 310-73991-1

Login Number: 73991
List Number: 2
Creator: McBride, Mike

List Source: TestAmerica Nashville
List Creation: 02/15/16 04:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-73988-1
Client Project/Site: 020416 AM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
2/23/2016 12:14:02 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 310-73988-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-73988-1

Comments
No additional comments.

Receipt
The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020416 AM (310-73988-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020416 AM (310-73988-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-73988-1	020416 AM	Solid	02/04/16 00:00	02/09/16 08:50

Client Sample ID: 020416 AM
Date Collected: 02/04/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73988-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1221	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1232	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1242	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1248	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1254	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1260	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
PCB-1268	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1
Polychlorinated biphenyls, Total	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*10 - 110*	*02/18/16 13:24*	*02/22/16 11:40*	*1*
Tetrachloro-m-xylene	*70*		*10 - 110*	*02/18/16 13:24*	*02/22/16 11:40*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.900		0.900		mg/L		02/11/16 10:11	02/11/16 20:53	3
Barium	<1.50		1.50		mg/L		02/11/16 10:11	02/11/16 20:53	3
Cadmium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:53	3
Chromium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:53	3
Lead	<0.300		0.300		mg/L		02/11/16 10:11	02/11/16 20:53	3
Selenium	<0.450		0.450		mg/L		02/11/16 10:11	02/11/16 20:53	3
Silver	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:53	3

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		02/15/16 10:08	02/16/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**6660**		200		BTU/lb			02/18/16 09:35	1
Flashpoint	**>215**		40.0		Degrees F			02/17/16 15:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.70**		0.100		SU			02/10/16 14:46	1

Client Sample ID: 020416 AM
Date Collected: 02/04/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73988-1
Matrix: Solid
Percent Solids: 89.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1221	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1232	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1242	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1248	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1254	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1260	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1
PCB-1268	<0.270		0.270		mg/Kg	☼	02/09/16 14:23	02/19/16 12:35	1

Client: Clayton County Recycling
Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Client Sample ID: 020416 AM
Date Collected: 02/04/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73988-1
Matrix: Solid
Percent Solids: 89.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 110*	*02/09/16 14:23*	*02/19/16 12:35*	*1*
Tetrachloro-m-xylene	*64*		*10 - 110*	*02/09/16 14:23*	*02/19/16 12:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**2330**		75.8		mg/Kg	☼	02/16/16 10:30	02/17/16 11:16	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Client Sample ID: 020416 AM

Lab Sample ID: 310-73988-1
Matrix: Solid

Date Collected: 02/04/16 00:00
Date Received: 02/09/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			117897	02/17/16 17:28	CK1	TAL CF
TCLP	Prep	3510C			118011	02/18/16 13:24	DLK	TAL CF
TCLP	Analysis	8082A		1	118263	02/22/16 11:40	BKT	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	3010A			117368	02/11/16 10:11	JNR	TAL CF
TCLP	Analysis	6010C		3	117440	02/11/16 20:53	OAD	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	7470A			117557	02/15/16 10:08	SAD	TAL CF
TCLP	Analysis	7470A		1	117766	02/16/16 13:09	SAD	TAL CF
Soluble	Leach	DI Leach			117316	02/10/16 13:00	SAS	TAL CF
Soluble	Analysis	9045D		1	117317	02/10/16 14:46	SAS	TAL CF
Total/NA	Analysis	D240-87		1	318243	02/18/16 09:35	JAB	TAL NSH
Total/NA	Analysis	D92		1	117888	02/17/16 15:47	JCF	TAL CF

Client Sample ID: 020416 AM

Lab Sample ID: 310-73988-1
Matrix: Solid
Percent Solids: 89.1

Date Collected: 02/04/16 00:00
Date Received: 02/09/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			117225	02/09/16 14:23	QRA	TAL CF
Total/NA	Analysis	8082A		1	118124	02/19/16 12:35	BKT	TAL CF
Total/NA	Prep	9023			317743	02/16/16 10:30	ADN	TAL NSH
Total/NA	Analysis	9023		1	317752	02/17/16 11:16	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-73968 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona, IA | Project:

Receipt Information

Date/Time Received: 2/9/16 8:50 | Received By: AM

Delivery Type: [X] UPS [ ] FedEx [ ] FedEx Ground [ ] US Mail [ ] Spee-Dee
[ ] TA Courier [ ] TA Field Services [ ] Client Drop-off [ ] Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	[ ] Yes	[X] No	*If yes:* Cooler ID:
Multiple Coolers?	[ ] Yes	[X] No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	[ ] Yes	[X] No	*If yes:* Cooler custody seals intact? [ ] Yes [ ] No
Sample Custody Seals Present?	[ ] Yes	[X] No	*If yes:* Sample custody seals intact? [ ] Yes [ ] No
Trip Blank Present?	[ ] Yes	[X] No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: [ ] Wet ice [ ] Blue ice [ ] Dry ice [ ] Other:_____ [X] NONE

Temperature Blank? [ ] Yes [X] No ID & Bottle Type:

Note: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID:	Correction Factor (°C):
Uncorrected Temp (°C):	Corrected Temp (°C):

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? [ ] Yes [X] No
   a) *If yes:* Is there evidence that the chilling process began? [ ] Yes [X] No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) [ ] Yes [ ] No

Note: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 111645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 020416 AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH	PCB	Reactability		RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
020416 AM																					X	X	X	X	X	X	X	X						

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Donna Leth	Date 2-9-16	Time 8:50	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

310-73988 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 2.12.16 @ 0935

Time Samples Removed From Cooler 2.15.16 1547 Time Samples Placed In Storage 1617 (2 Hour Window)

1. Tracking # 7277 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18296455~~ 17960357 mm 2.11.16 pH Strip Lot ~~HC559158~~ HC559158 mm 2.11.16 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: N/A

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AES

7. Were custody seals on containers: YES NO and Intact YES..,NO..NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO..NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) mam

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mam

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mam

I certify that I attached a label with the unique LIMS number to each container (intial) mam

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

Loc: 310
73988

'om: Brown, Shali
ent: Wednesday, February 10, 2016 5:34 PM
o: Facciani, Melene; Jeffrey Lambert
ubject: Clayton County Samples Workshare from Cedar Falls to Nashville
illo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

'ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them ar iat the jobs are.

0-
977
983
988
990
991
993

310 - 73977
83
88
90
91
93

anks,
ali

Read by: [signature] TAW 2/12/16 @ 0935
D.Bc

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-73988-1

Login Number: 73988
List Number: 1
Creator: Leitz, Gemma H

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

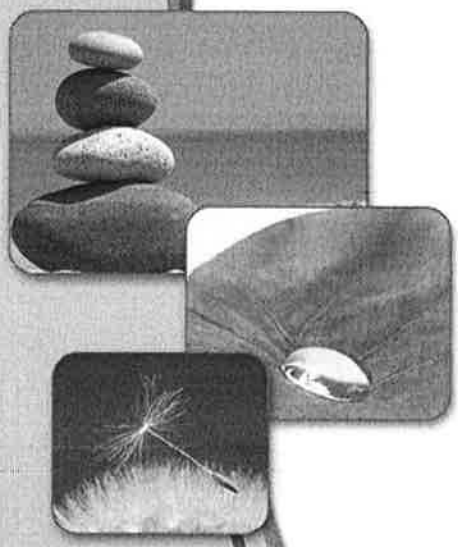
Client: Clayton County Recycling

Job Number: 310-73988-1

Login Number: 73988
List Number: 2
Creator: McBride, Mike

List Source: TestAmerica Nashville
List Creation: 02/15/16 04:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-73983-1
Client Project/Site: 020316 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
2/23/2016 12:13:45 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Job ID: 310-73983-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-73983-1

Comments
No additional comments.

Receipt
The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020316 PM (310-73983-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020316 PM (310-73983-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-73983-1	020316 PM	Solid	02/03/16 00:00	02/09/16 08:50

Client Sample ID: 020316 PM
Date Collected: 02/03/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73983-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1221	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1232	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1242	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1248	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1254	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1260	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
PCB-1268	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1
Polychlorinated biphenyls, Total	<10.7		10.7		ug/L		02/18/16 13:24	02/22/16 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*30*		*10 - 110*	*02/18/16 13:24*	*02/22/16 11:27*	*1*
Tetrachloro-m-xylene	*48*		*10 - 110*	*02/18/16 13:24*	*02/22/16 11:27*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.900		0.900		mg/L		02/11/16 10:11	02/11/16 20:51	3
Barium	<1.50		1.50		mg/L		02/11/16 10:11	02/11/16 20:51	3
Cadmium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:51	3
Chromium	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:51	3
Lead	<0.300		0.300		mg/L		02/11/16 10:11	02/11/16 20:51	3
Selenium	<0.450		0.450		mg/L		02/11/16 10:11	02/11/16 20:51	3
Silver	<0.0600		0.0600		mg/L		02/11/16 10:11	02/11/16 20:51	3

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		02/15/16 10:08	02/16/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**6510**		200		BTU/lb			02/18/16 09:35	1
Flashpoint	**>215**		40.0		Degrees F			02/17/16 15:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.47**		0.100		SU			02/10/16 14:45	1

Client Sample ID: 020316 PM
Date Collected: 02/03/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73983-1
Matrix: Solid
Percent Solids: 84.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1221	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1232	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1242	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1248	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1254	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1260	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1
PCB-1268	<0.262		0.262		mg/Kg	☼	02/09/16 14:23	02/19/16 12:22	1

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Client Sample ID: 020316 PM
Date Collected: 02/03/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73983-1
Matrix: Solid
Percent Solids: 84.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		10 - 110	02/09/16 14:23	02/19/16 12:22	1
Tetrachloro-m-xylene	59		10 - 110	02/09/16 14:23	02/19/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	1330		61.0		mg/Kg	☼	02/16/16 10:30	02/17/16 11:16	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73983-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			117897	02/17/16 17:28	CK1	TAL CF
TCLP	Prep	3510C			118011	02/18/16 13:24	DLK	TAL CF
TCLP	Analysis	8082A		1	118263	02/22/16 11:27	BKT	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	3010A			117368	02/11/16 10:11	JNR	TAL CF
TCLP	Analysis	6010C		3	117440	02/11/16 20:51	OAD	TAL CF
TCLP	Leach	1311			117321	02/10/16 14:43	CK1	TAL CF
TCLP	Prep	7470A			117557	02/15/16 10:08	SAD	TAL CF
TCLP	Analysis	7470A		1	117766	02/16/16 13:07	SAD	TAL CF
Soluble	Leach	DI Leach			117316	02/10/16 13:00	SAS	TAL CF
Soluble	Analysis	9045D		1	117317	02/10/16 14:45	SAS	TAL CF
Total/NA	Analysis	D240-87		1	318243	02/18/16 09:35	JAB	TAL NSH
Total/NA	Analysis	D92		1	117888	02/17/16 15:47	JCF	TAL CF

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00
Date Received: 02/09/16 08:50

Lab Sample ID: 310-73983-1
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			117225	02/09/16 14:23	QRA	TAL CF
Total/NA	Analysis	8082A		1	118124	02/19/16 12:22	BKT	TAL CF
Total/NA	Prep	9023			317743	02/16/16 10:30	ADN	TAL NSH
Total/NA	Analysis	9023		1	317752	02/17/16 11:16	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-16 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Clayton County Recycling
Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING


310-73983 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona, IA | Project:

Receipt Information

Date/Time Received: 2/9/16 8:50 | Received By: AM

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☐ Yes	☒ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID:	Correction Factor (°C):
Uncorrected Temp (°C):	Corrected Temp (°C):

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☒ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: D20316 PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@carrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH	PCB	Leachability	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
D20316 PM																					X	X	X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Gemma Kirby	Date 2-9-16	Time 8:50	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

310-73983 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 2.12.16 @ 0935

Time Samples Removed From Cooler 2.15.16 @ 1547 Time Samples Placed In Storage 1647 (2 Hour Window)

1. Tracking # 7277 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~13290455~~ 17960357 mdm 2.11.16 pH Strip Lot ~~HC534812~~ HC559158 mdm 2.11.16 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius
3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)
4. Were custody seals on outside of cooler? YES...(NO)...NA

   If yes, how many and where: N/A
5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)
6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AEQ

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)
8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA
12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence #________

I certify that I unloaded the cooler and answered questions 7-14 (intial) mdm

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mdm

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA
18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA
19. Were correct containers used for the analysis requested? (YES)...NO...NA
20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mdm

I certify that I attached a label with the unique LIMS number to each container (intial) mdm

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#________

BIS = Broken in shipment
Cooler Receipt Form.doc

End of Form

Revised 12/15/15 2/23/2016

'om: Brown, Shali

ent: Wednesday, February 10, 2016 5:34 PM

Loc: 310
73983

): Facciani, Melene; Jeffrey Lambert

ubject: Clayton County Samples Workshare from Cedar Falls to Nashville

illo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

'ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them ar iat the jobs are.

310 - 73977
83
88
90
91
93

0-
977
983
988
990
991
993

anks,
ali

Read by: mdw 2/12/16 @ 0935

0.0c

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-73983-1

Login Number: 73983
List Number: 1
Creator: Leitz, Gemma H

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-73983-1

Login Number: 73983
List Number: 2
Creator: McBride, Mike

List Source: TestAmerica Nashville
List Creation: 02/15/16 04:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Advanced Disposal

June 1, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys, Controller

Re: Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 05/31/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:	Clayton County Recycling
Address of Waste Generated:	11645 Echo Avenue, Monona, IA 52129
Waste Stream:	Fluff, Shredded Auto Residue
Waste Category:	26A
Profile Number:	GRL 07027
Profile Recertification Date:	08/23/16
Waste Disposal Method:	Direct

Please note the special conditions for acceptance are as follows:

1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter
Administrative Assistant

JFW/smr
Attachment

Advanced Disposal

May 10, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys

Re: Special Waste Profile #GRL 07027 – Disposal of Auto Shredder Fluff and Fines

Dear Gina:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. **If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.**

1. Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any additional analysis that may have been performed on the waste.

2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, **together with an updated analytical report for this material.**

I have reviewed the process generating the waste and the information submitted to obtain the original disposal approval. Based on this review, I certify that no changes have occurred in the process generating the waste or the materials used in the process, and the information originally submitted continues to be representative of the waste.

Gina Roys — Signature
5.31.16 — Date
Gina Roys — Printed Name
Controller — Title

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,
ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

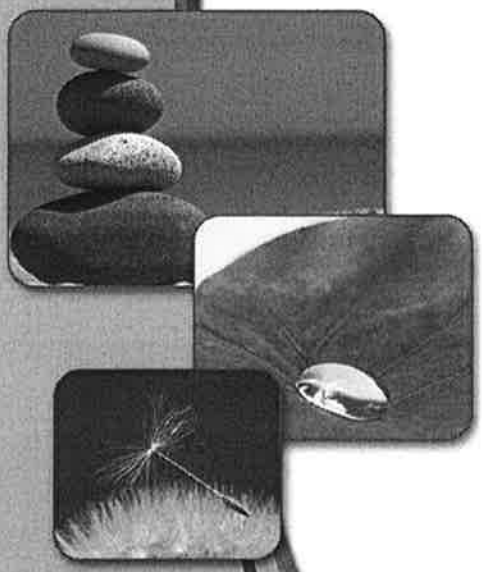
By Jayne Fae Walter
Jayne Fae Walter
Administrative Assistant

5-31-16
Approvals Signature and Date
5/31/16
Landfill Signature and Date

Recertification Date: 8-23-16

Enclosure

N7296 Highway V Horicon, WI 53032 Telephone: (920) 387-0987 Fax: (920) 387-0980
AdvancedDisposal.com



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-80721-1
Client Project/Site: 050916 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
5/27/2016 11:49:48 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Job ID: 310-80721-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-80721-1

Comments
No additional comments.

Receipt
The sample was received on 5/17/2016 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
Method(s) 8082A: Surrogate recovery for the following sample was outside the upper control limit: 050916 PM (310-80721-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 050916 PM (310-80721-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) D92: The following sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-80721-1	050916 PM	Solid	05/09/16 00:00	05/17/16 09:05

Client Sample ID: 050916 PM
Date Collected: 05/09/16 00:00
Date Received: 05/17/16 09:05

Lab Sample ID: 310-80721-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		05/20/16 10:00	05/20/16 21:49	2
Barium	<1.00		1.00		mg/L		05/20/16 10:00	05/20/16 21:49	2
Cadmium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:49	2
Chromium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:49	2
Lead	<0.200		0.200		mg/L		05/20/16 10:00	05/20/16 21:49	2
Selenium	<0.300		0.300		mg/L		05/20/16 10:00	05/20/16 21:49	2
Silver	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:49	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/24/16 12:16	05/25/16 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**3500**		200		BTU/lb			05/26/16 12:00	1
Flashpoint	**>215**		40.0		Degrees F			05/26/16 14:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.15**	H	0.100		SU			05/19/16 10:21	1

Client Sample ID: 050916 PM
Date Collected: 05/09/16 00:00
Date Received: 05/17/16 09:05

Lab Sample ID: 310-80721-1
Matrix: Solid
Percent Solids: 84.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1221	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1232	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1242	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1248	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1254	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1260	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1
PCB-1268	<0.849		0.849		mg/Kg	☼	05/17/16 20:32	05/23/16 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*118*	*X*	*10 - 110*	*05/17/16 20:32*	*05/23/16 18:02*	*1*
Tetrachloro-m-xylene	*50*		*10 - 110*	*05/17/16 20:32*	*05/23/16 18:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**1030**		61.4		mg/Kg	☼	05/24/16 14:22	05/24/16 15:52	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

Client Sample ID: 050916 PM — **Lab Sample ID: 310-80721-1**
Date Collected: 05/09/16 00:00 — **Matrix: Solid**
Date Received: 05/17/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			128236	05/20/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		2	128497	05/20/16 21:49	OAD	TAL CF
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			128682	05/24/16 12:16	SAD	TAL CF
TCLP	Analysis	7470A		1	128837	05/25/16 10:58	SAD	TAL CF
Soluble	Leach	DI Leach			127861	05/19/16 08:25	SAS	TAL CF
Soluble	Analysis	9045D		1	128179	05/19/16 10:21	SAS	TAL CF
Total/NA	Analysis	D240-87		1	343338	05/26/16 12:00	JAB	TAL NSH
Total/NA	Analysis	D92		1	129020	05/26/16 14:16	BER	TAL CF

Client Sample ID: 050916 PM — **Lab Sample ID: 310-80721-1**
Date Collected: 05/09/16 00:00 — **Matrix: Solid**
Date Received: 05/17/16 09:05 — **Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			127925	05/17/16 20:32	AJM	TAL CF
Total/NA	Analysis	8082A		1	128573	05/23/16 18:02	BKT	TAL CF
Total/NA	Prep	9023			342942	05/24/16 14:22	CLJ	TAL NSH
Total/NA	Analysis	9023		1	342974	05/24/16 15:52	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

Method Summary

Client: Clayton County Recycling
Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-80721 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co. Recycling

City/State: | Project:

Receipt Information

Date/Time Received: 5-17-16 09:05 | Received By: CH

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID: in box

Multiple Coolers? ☐ Yes ☐ No *If yes:* Cooler # ____ of ____

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type: baggie

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 14 | Correction Factor (°C): +0.1°C

Uncorrected Temp (°C): 20.0°C | Corrected Temp (°C): 20.1°C

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 050916pm
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	flashpoint	Chloride	BTEX	PH	RUSH TAT (Must call ahead)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours In ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Melissa Jackson	Date 5/17/16	Time 905	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-6804.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 310-80721-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 5/27/2016			Preservation Codes:
City: Nashville	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 050916 PM	Project #: 31001320			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
050916 PM (310-80721-1)	5/9/16	Central		Solid			X	X	1	

Loc: 310
80721

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	T. Beth	5/5/16 1446			05-19-2016 09:40	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

5/27/2016

Loc: 310
80721

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 5/19/2016 @ 0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 0527 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 040715C

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) CMC

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) CMC

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA) 5/19

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) CMC

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) KA

I certify that I attached a label with the unique LIMS number to each container (intial) KA

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80721-1

Login Number: 80721
List Number: 1
Creator: Facciani, Melene K

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	rcvd in box
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	ID not listed. Used PO# as ID
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample splitting required for subcontract purposes.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80721-1

Login Number: 80721
List Number: 2
Creator: Dawson, Keith M

List Source: TestAmerica Nashville
List Creation: 05/19/16 03:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-80700-1
Client Project/Site: 050916 AM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
5/27/2016 11:49:04 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 310-80700-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-80700-1

Comments
No additional comments.

Receipt
The sample was received on 5/17/2016 1:15 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 050916 AM (310-80700-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) D92: The following sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-80700-1	050916 AM	Solid	05/09/16 00:00	05/17/16 13:15

Client Sample ID: 050916 AM
Date Collected: 05/09/16 00:00
Date Received: 05/17/16 13:15

Lab Sample ID: 310-80700-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		05/20/16 10:00	05/20/16 21:47	2
Barium	<1.00		1.00		mg/L		05/20/16 10:00	05/20/16 21:47	2
Cadmium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:47	2
Chromium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:47	2
Lead	<0.200		0.200		mg/L		05/20/16 10:00	05/20/16 21:47	2
Selenium	<0.300		0.300		mg/L		05/20/16 10:00	05/20/16 21:47	2
Silver	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:47	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/24/16 12:16	05/25/16 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**4180**		200		BTU/lb			05/26/16 11:40	1
Flashpoint	**>215**		40.0		Degrees F			05/26/16 14:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.13**	**H**	0.100		SU			05/19/16 10:20	1

Client Sample ID: 050916 AM
Date Collected: 05/09/16 00:00
Date Received: 05/17/16 13:15

Lab Sample ID: 310-80700-1
Matrix: Solid
Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1221	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1232	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1242	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1248	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1254	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1260	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1
PCB-1268	<0.902		0.902		mg/Kg	☼	05/17/16 20:32	05/23/16 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*10 - 110*	*05/17/16 20:32*	*05/23/16 17:52*	*1*
Tetrachloro-m-xylene	*47*		*10 - 110*	*05/17/16 20:32*	*05/23/16 17:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**55.5**		51.0		mg/Kg	☼	05/24/16 14:22	05/24/16 15:52	1

Client Sample ID: 050916 AM — **Lab Sample ID: 310-80700-1**
Date Collected: 05/09/16 00:00 — **Matrix: Solid**
Date Received: 05/17/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			128236	05/20/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		2	128497	05/20/16 21:47	OAD	TAL CF
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			128682	05/24/16 12:16	SAD	TAL CF
TCLP	Analysis	7470A		1	128837	05/25/16 10:56	SAD	TAL CF
Soluble	Leach	DI Leach			127861	05/19/16 08:25	SAS	TAL CF
Soluble	Analysis	9045D		1	128179	05/19/16 10:20	SAS	TAL CF
Total/NA	Analysis	D240-87		1	343338	05/26/16 11:40	JAB	TAL NSH
Total/NA	Analysis	D92		1	129020	05/26/16 14:16	BER	TAL CF

Client Sample ID: 050916 AM — **Lab Sample ID: 310-80700-1**
Date Collected: 05/09/16 00:00 — **Matrix: Solid**
Date Received: 05/17/16 13:15 — **Percent Solids: 87.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			127925	05/17/16 20:32	AJM	TAL CF
Total/NA	Analysis	8082A		1	128573	05/23/16 17:52	BKT	TAL CF
Total/NA	Prep	9023			342942	05/24/16 14:22	CLJ	TAL NSH
Total/NA	Analysis	9023		1	342974	05/24/16 15:52	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

Method Summary

Client: Clayton County Recycling
Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-80700 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co. Recycling

City/State: | Project:

Receipt Information

Date/Time Received: 5-17-16 09:05 | Received By: CH

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID: in box

Multiple Coolers? ☐ Yes ☐ No *If yes:* Cooler # ____ of ____

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type: Baggie

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 14 | Correction Factor (°C): +0.1°C

Uncorrected Temp (°C): 20.0°C | Corrected Temp (°C): 20.1°C

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 050916 AM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red & White Label)	Preservative: HCl (Blue & White Label)	Preservative: NaOH (Orange & White Label)	Preservative: H_2SO_4 Plastic (Yellow & White Label)	Preservative: H_2SO_4 Glass(Yellow & White Label)	Preservative: None (Black & White Label)	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Oil	Analyze For: PCB	Analyze For: TCLP Metals	Analyze For: Flashpoint	Analyze For: Chloride	Analyze For: BTEX	Analyze For: PH	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Melissa Jacobsen	Date 5/17/16	Time 905	Temperature Upon Receipt:			Laboratory Comments:		

5/27/2016

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-6804.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 310-80700-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 5/27/2016			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 050916 AM	Project #: 31001320			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
050916 AM (310-80700-1)	5/9/16	Central		Solid			X	X	1	

Loc: 310
80700

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: T. Oath	Date/Time: 5/18/16 1446	Company	Received by: [signature]	Date/Time: 05-19-2016 09:40	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

5/27/2016

Loc: 310
80700

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 5/19/2016 @ 0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 0527 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 040715C

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) CMC

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) CMC

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) CMC

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) KP

I certify that I attached a label with the unique LIMS number to each container (intial) KP

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO...#_____

Soils

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80700-1

Login Number: 80700
List Number: 1
Creator: Facciani, Melene K

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	received in box
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	ID not filled. used PO# as ID
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample splitting required for subcontract purposes.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

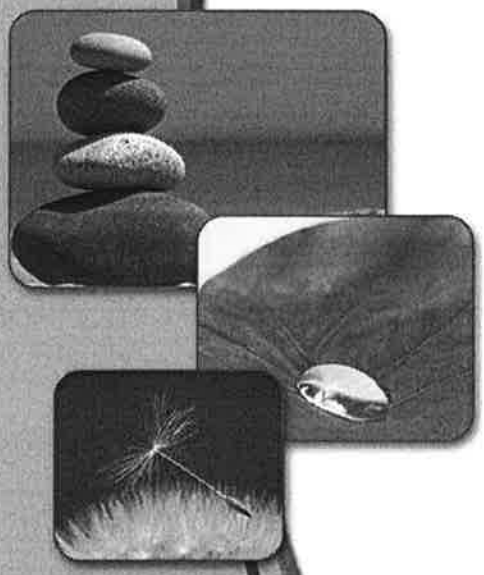
Client: Clayton County Recycling

Job Number: 310-80700-1

Login Number: 80700
List Number: 2
Creator: Dawson, Keith M

List Source: TestAmerica Nashville
List Creation: 05/19/16 03:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-80723-1
Client Project/Site: 051016 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
5/27/2016 11:51:30 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Job ID: 310-80723-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-80723-1

Comments
No additional comments.

Receipt
The sample was received on 5/17/2016 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 051016 PM (310-80723-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) D92: The following sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-80723-1	051016 PM	Solid	05/10/16 00:00	05/17/16 09:05

Client Sample ID: 051016 PM
Date Collected: 05/10/16 00:00
Date Received: 05/17/16 09:05

Lab Sample ID: 310-80723-1
Matrix: Solid

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		05/20/16 10:00	05/20/16 21:53	2
Barium	<1.00		1.00		mg/L		05/20/16 10:00	05/20/16 21:53	2
Cadmium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:53	2
Chromium	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:53	2
Lead	<0.200		0.200		mg/L		05/20/16 10:00	05/20/16 21:53	2
Selenium	<0.300		0.300		mg/L		05/20/16 10:00	05/20/16 21:53	2
Silver	<0.0400		0.0400		mg/L		05/20/16 10:00	05/20/16 21:53	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/24/16 12:16	05/25/16 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**4140**		200		BTU/lb			05/26/16 14:00	1
Flashpoint	**>215**		40.0		Degrees F			05/26/16 14:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.17**	**H**	0.100		SU			05/19/16 10:24	1

Client Sample ID: 051016 PM
Date Collected: 05/10/16 00:00
Date Received: 05/17/16 09:05

Lab Sample ID: 310-80723-1
Matrix: Solid
Percent Solids: 79.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1221	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1232	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1242	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1248	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1254	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1260	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1
PCB-1268	<0.869		0.869		mg/Kg	☼	05/17/16 20:32	05/23/16 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*10 - 110*	*05/17/16 20:32*	*05/23/16 18:23*	*1*
Tetrachloro-m-xylene	*48*		*10 - 110*	*05/17/16 20:32*	*05/23/16 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**368**		54.0		mg/Kg	☼	05/24/16 14:22	05/24/16 15:52	1

Client Sample ID: 051016 PM — **Lab Sample ID: 310-80723-1**

Date Collected: 05/10/16 00:00 — **Matrix: Solid**

Date Received: 05/17/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			128236	05/20/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		2	128497	05/20/16 21:53	OAD	TAL CF
TCLP	Leach	1311			128142	05/18/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			128682	05/24/16 12:16	SAD	TAL CF
TCLP	Analysis	7470A		1	128837	05/25/16 11:04	SAD	TAL CF
Soluble	Leach	DI Leach			127861	05/19/16 08:25	SAS	TAL CF
Soluble	Analysis	9045D		1	128179	05/19/16 10:24	SAS	TAL CF
Total/NA	Analysis	D240-87		1	343338	05/26/16 14:00	JAB	TAL NSH
Total/NA	Analysis	D92		1	129020	05/26/16 14:16	BER	TAL CF

Client Sample ID: 051016 PM — **Lab Sample ID: 310-80723-1**

Date Collected: 05/10/16 00:00 — **Matrix: Solid**

Date Received: 05/17/16 09:05 — **Percent Solids: 79.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			127925	05/17/16 20:32	AJM	TAL CF
Total/NA	Analysis	8082A		1	128573	05/23/16 18:23	BKT	TAL CF
Total/NA	Prep	9023			342942	05/24/16 14:22	CLJ	TAL NSH
Total/NA	Analysis	9023		1	342974	05/24/16 15:52	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

Method Summary

Client: Clayton County Recycling
Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-80723 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton Co. Recycling

City/State: | Project:

Receipt Information

Date/Time Received: 5-17-16 09:05 | Received By: CH

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID: in box

Multiple Coolers? ☐ Yes ☐ No *If yes:* Cooler # ____ of ____

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type: Baggie

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: 14 | Correction Factor (°C): +0.1°C

Uncorrected Temp (°C): 20.0°C | Corrected Temp (°C): 20.1°C

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 051016 PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP Metals	Flashpoint	Chloride	BTU	PH					RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X									

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours In ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Helen Pasciak	Date 5/12/16	Time 905	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-6804.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 310-80723-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 5/27/2016			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 051016 PM	Project #: 31001320			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
051016 PM (310-80723-1)	5/10/16	Central		Solid			X	X	1	

Loc: 310
80723

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	T. Death	5/19/16 1457			05-19-2016 09:40	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

5/27/2016

Loc: 310
80723

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 5/19/2016 @ 0940

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 0527 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 040715C

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

5/27/2016

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80723-1

Login Number: 80723
List Number: 1
Creator: Facciani, Melene K

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	received in box
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	no ID, date or time on coc Used PO #
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Sample splitting required for subcontract purposes.
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80723-1

Login Number: 80723
List Number: 2
Creator: Dawson, Keith M

List Source: TestAmerica Nashville
List Creation: 05/19/16 03:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Advanced Disposal

September 2, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys, Controller

Re: Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 09/02/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:	Clayton County Recycling
Address of Waste Generated:	11645 Echo Avenue, Monona, IA 52129
Waste Stream:	Fluff, Shredded Auto Residue
Waste Category:	26A
Profile Number:	GRL 07027
Profile Recertification Date:	11/30/16
Waste Disposal Method:	Direct

Please note the special conditions for acceptance are as follows:

1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and/or MSDS if applicable, and submitted for review and approval prior to acceptance.
3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter
Administrative Assistant

JFW/smr
Attachment

Advanced Disposal Services Glacier Ridge Landfill

Street Address: N7296 Hwy V
City, State, Zip: Horicon, WI 53032
Telephone: 920-387-0987

Advanced Disposal

WASTE PROFILE SHEET

Designated Facility: Glacier Ridge Landfill - WI

Profile #: GRL 07027
Original Submittal: ○ Yes ○ No
Recertification: ◉ Yes ○ No
One Time Project: ○ Yes ○ No
Sales Representative: Floyd Leo

A. Generator

Name: Clayton County Recycling
Site Address: 11645 Echo Avenue
City, State, Zip: Monona, IA 52159
Contact: Gina Roys
Phone: (563) 639-4757
Fax: (563) 639-4735

B. Billing

Name: Same As Generator
Site Address:
City, State, Zip:
Contact:
Phone:
Fax:

C. Waste Stream Information

Waste Name: Auto Shredder Fluff
Process Generating Waste: Auto Shredder

Method of Shipment: ○ Bagged ○ Drum ◉ Bulk ○ Other
Estimated Annual Volume: ○ Cubic Yards ◉ Tons ○ Other
Frequency: ○ One Time ◉ Daily ○ Weekly ○ Monthly ○ Other
Special Handling:

D. Sample/Analysis Information

Is the representative sample collected to prepare this profile and laboratory analysis collected in accordance with U.S. EPA 40 CFR 261.20 (c) guidelines or equivalent rules? ○ Yes ○ No

Check all that apply:

☐ Sample Submitted with profile ☒ Laboratory Analysis submitted ☐ Safety Data Sheet submitted

Laboratory Name Sample Date Sample I.D.

E. Waste Characteristics

Physical State:
Color:
Free Liquids:
Flash Point:
pH:
Total Solids:
Reactive Cyanide:
Reactive Sulfide:

Laboratory analytical and/or SDS including required parameters provided for this profile is attached. ○ Yes ○ No

Landfill Initials:

Is this waste a hazardous waste as defined by Federal, State or local laws and regulations?	○ Yes ◉ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	○ Yes ○ No
Is this waste a characteristically hazardous waste as defined in 40 CFR 261.20 - CFR 261.24?	○ Yes ◉ No
Does this waste or generating process contain regulated concentrations of the following pesticides and/or herbicides; Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-T Silvex as defined in 40 CFR 261.33?	○ Yes ◉ No
Does this waste contain regulated concentrations of listed hazardous wastes defined by 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed solvents?	○ Yes ◉ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD) or any other dioxin as defined in 40 CFR261.31?	○ Yes ◉ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	○ Yes ◉ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	○ Yes ◉ No
Is this waste generated at a Federal Superfund Clean-up Site?	○ Yes ◉ No
Does this waste generate fugitive dust?	○ Yes ◉ No
Is this waste hot or capable of generating heat?	○ Yes ◉ No
Is this waste subject to UST Corrective Action Regulations under CFR 280?	○ Yes ◉ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Furthermore, this waste does not contain nor is derived from the processing, solidification or treatment of naturally occurring radioactive material (NORM) or technologically enhanced naturally occurring radioactive material (TENORM) as defined under any State, local or federal laws.	○ Yes ◉ No
	○ Yes ○ No
	○ Yes ○ No
Other Waste Data or Comments.	

Description of Process and Raw Materials Generating Waste
(use additional sheets as necessary)

F. Generator Certification

To the best of my knowledge, all information submitted in this and all attached documents contain true and accurate descriptions of the waste. This waste is not a hazardous waste as defined by federal, State or local laws and regulations. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Gina Roys
Generator Signature

Controller
Title

Gina Roys
Printed Name

8-31-16
Date

Is the agent authorized to sign all manifests at site on my behalf.

G. Landfill Approval

My approval is based upon the laboratory analysis of a representative sample and/or safety data sheets submitted by the generator. All State and/or third party reviews and approvals are obtained and maintained on file. Receipt of waste is in full compliance of internal policies pertaining to waste acceptance and all pertinent permits and host agreement(s).

State and/or third party reviews and approvals obtained and attached to profile?	● Yes ○ No
Is employee training exclusive to this waste stream required for the proper handling and disposal of the material?	○ Yes ● No
Specify what training exclusive to this waste stream is required and for which employees:	
Is employee PPE exceeding the minimum requirements needed for the proper handling and disposal of this waste stream?	○ Yes ● No
Specify what additional PPE is required and to which employees the additional PPE is to be provided:	

Landfill Approval

Landfill Signature

Lora P. Walter

Printed Name

General Manager

Title

09-02-16

Date

Level Of Authority Approval

Approver Signature

Printed Name

Title

Date

Third Party Review

Approver Signature

Tim Bechtel

Printed Name

Approved

Title

5-2-16

Date

Landfill Used for Disposal: Glacier Ridge Landfill

Generator Name: Clayton County Recycling Profile Number: GRL 07027

Waste Name: Auto Shredder Fluff

Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:

	Yes	No	N/A
Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 2 6-

Recertification Date: 11-31-16 ~~[illegible]~~

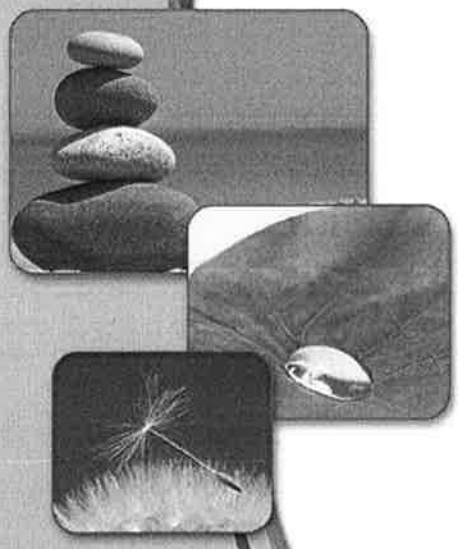
Frequency of Testing: ↳ 11-30-16 [illegible]

Disposal Method: B

Parameters to be Tested:

Conditions of Approval:

For Office Use Only



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-87648-1
Client Project/Site: 081616 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
8/31/2016 2:32:16 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Job ID: 310-87648-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-87648-1

Comments
No additional comments.

Receipt
The sample was received on 8/22/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 081616 PM (310-87648-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 081616 PM (310-87648-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-87648-1	081616 PM	Solid	08/16/16 00:00	08/22/16 08:50

Client Sample ID: 081616 PM
Date Collected: 08/16/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87648-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1221	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1232	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1242	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1248	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1254	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1260	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
PCB-1268	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1
Polychlorinated biphenyls, Total	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:32*	*1*
Tetrachloro-m-xylene	*66*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:32*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		08/25/16 10:00	08/26/16 15:23	2
Barium	<1.00		1.00		mg/L		08/25/16 10:00	08/26/16 15:23	2
Cadmium	**0.0511**		0.0400		mg/L		08/25/16 10:00	08/26/16 15:23	2
Chromium	<0.0400		0.0400		mg/L		08/25/16 10:00	08/26/16 15:23	2
Lead	**0.517**		0.200		mg/L		08/25/16 10:00	08/26/16 15:23	2
Selenium	<0.300		0.300		mg/L		08/25/16 10:00	08/26/16 15:23	2
Silver	<0.0400		0.0400		mg/L		08/25/16 10:00	08/26/16 15:23	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		08/24/16 13:32	08/26/16 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**5470**		200		BTU/lb			08/25/16 13:30	1
Flashpoint	**>215**		40.0		Degrees F			08/24/16 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**HF**	0.1		SU			08/23/16 14:56	1

Client Sample ID: 081616 PM
Date Collected: 08/16/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87648-1
Matrix: Solid
Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1221	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1232	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1242	**0.993**		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1248	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1254	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1260	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1
PCB-1268	<0.502		0.502		mg/Kg	☼	08/22/16 12:27	08/30/16 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		10 - 110	08/22/16 12:27	08/30/16 13:35	1
Tetrachloro-m-xylene	56		10 - 110	08/22/16 12:27	08/30/16 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	1470		59.8		mg/Kg	☼	08/24/16 06:00	08/25/16 11:30	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Client Sample ID: 081616 PM

Lab Sample ID: 310-87648-1

Date Collected: 08/16/16 00:00
Date Received: 08/22/16 08:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			138865	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3510C			138961	08/24/16 13:58	DEM1	TAL CF
TCLP	Analysis	8082A		1	139660	08/30/16 18:32	BKT	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			138928	08/25/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		2	139387	08/26/16 15:23	OAD	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			138951	08/24/16 13:32	SAD	TAL CF
TCLP	Analysis	7470A		1	139342	08/26/16 12:35	SAD	TAL CF
Soluble	Leach	DI Leach			138725	08/23/16 09:15	JIS	TAL CF
Soluble	Analysis	9045D		1	138807	08/23/16 14:56	JIS	TAL CF
Total/NA	Analysis	D240-87		1	365538	08/25/16 13:30	BMC	TAL NSH
Total/NA	Analysis	D92		1	139000	08/24/16 15:44	BER	TAL CF

Client Sample ID: 081616 PM

Lab Sample ID: 310-87648-1

Date Collected: 08/16/16 00:00
Date Received: 08/22/16 08:50

Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			138625	08/22/16 12:27	DEM2	TAL CF
Total/NA	Analysis	8082A		1	139607	08/30/16 13:35	BKT	TAL CF
Total/NA	Prep	9023			364732	08/24/16 06:00	CLJ	TAL NSH
Total/NA	Analysis	9023		1	364786	08/25/16 11:30	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9023	9023	Solid	Halogens, Extractable Organic
D240-87		Solid	BTU

Method Summary

Client: Clayton County Recycling
Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-87648 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona IA | Project:

Receipt Information

Date/Time Received: 8.22.16 8:50 | Received By: AW

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # ____ of ____

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue Ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type:

Note: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: J | Correction Factor (°C): 0.0

Uncorrected Temp (°C): 20.6 | Corrected Temp (°C): 20.6

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

Note: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 081616PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH	PCB	Corrosibility	RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X	X	X					

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Kathleen Peatman	Date 8-22-16	Time 8:56	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-7338.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 310-87648-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 9/1/2016			Preservation Codes:
City: Nashville	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 081616 PM	Project #: 31001320			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
081616 PM (310-87648-1)	8/16/16	Central		Solid			X	X	1	

Possible Hazard Identification Unconfirmed		*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/16 1509		[signature]	8-23-16 0850	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 310
87648

COOLER RECEIPT FORM

Cooler Received/Opened On 8/23/2016 @ 0850

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 2386 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES (NO) NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES (NO) NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES (NO) Was a NCM generated? YES (NO) #_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87648-1

Login Number: 87648
List Number: 1
Creator: Patrick, Kathryn A

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice received.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

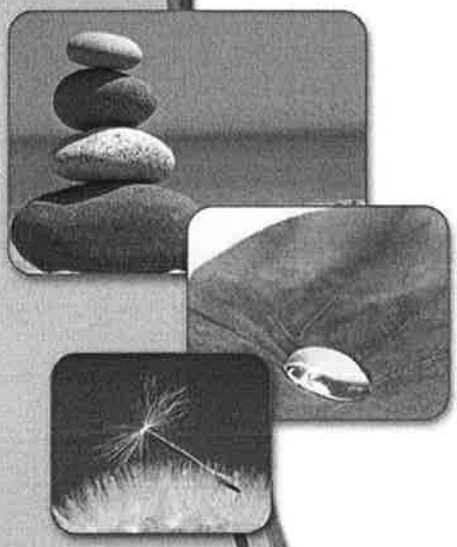
Client: Clayton County Recycling

Job Number: 310-87648-1

Login Number: 87648
List Number: 2
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 08/23/16 03:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-87638-1
Client Project/Site: 081516 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
8/31/2016 1:50:02 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 310-87638-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-87638-1

Comments
No additional comments.

Receipt
The sample was received on 8/22/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 310-138625 and analytical batch 310-139607 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: 081516 PM (310-87638-1), (310-87638-A-1 MS) and (310-87638-A-1 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-87638-1	081516 PM	Solid	08/15/16 00:00	08/22/16 08:50

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Client Sample ID: 081516 PM
Date Collected: 08/15/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87638-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1221	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1232	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1242	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1248	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1254	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1260	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
PCB-1268	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1
Polychlorinated biphenyls, Total	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*38*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:00*	*1*
Tetrachloro-m-xylene	*49*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:00*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		08/25/16 10:00	08/25/16 17:31	1
Barium	<0.500		0.500		mg/L		08/25/16 10:00	08/25/16 17:31	1
Cadmium	**0.0307**		0.0200		mg/L		08/25/16 10:00	08/25/16 17:31	1
Chromium	**0.0269**		0.0200		mg/L		08/25/16 10:00	08/25/16 17:31	1
Lead	**0.443**		0.100		mg/L		08/25/16 10:00	08/25/16 17:31	1
Selenium	<0.150		0.150		mg/L		08/25/16 10:00	08/25/16 17:31	1
Silver	<0.0200		0.0200		mg/L		08/25/16 10:00	08/25/16 17:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		08/24/16 13:32	08/26/16 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**7530**		200		BTU/lb			08/25/16 11:50	1
Flashpoint	**>215**		40.0		Degrees F			08/24/16 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**	**HF**	0.1		SU			08/23/16 14:48	1

Client Sample ID: 081516 PM
Date Collected: 08/15/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87638-1
Matrix: Solid
Percent Solids: 65.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1221	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1232	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1242	**1.05**		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1248	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1254	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1260	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1
PCB-1268	<0.496		0.496		mg/Kg	☼	08/22/16 12:27	08/30/16 13:03	1

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		10 - 110	08/22/16 12:27	08/30/16 13:03	1
Tetrachloro-m-xylene	62		10 - 110	08/22/16 12:27	08/30/16 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	10400		76.6		mg/Kg	☼	08/24/16 06:00	08/24/16 11:03	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Client Sample ID: 081516 PM
Date Collected: 08/15/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87638-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			138865	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3510C			138961	08/24/16 13:58	DEM1	TAL CF
TCLP	Analysis	8082A		1	139660	08/30/16 18:00	BKT	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			138928	08/25/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		1	139219	08/25/16 17:31	OAD	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			138951	08/24/16 13:32	SAD	TAL CF
TCLP	Analysis	7470A		1	139342	08/26/16 12:27	SAD	TAL CF
Soluble	Leach	DI Leach			138725	08/23/16 09:15	JIS	TAL CF
Soluble	Analysis	9045D		1	138807	08/23/16 14:48	JIS	TAL CF
Total/NA	Analysis	D240-87		1	365538	08/25/16 11:50	BMC	TAL NSH
Total/NA	Analysis	D92		1	139000	08/24/16 15:44	BER	TAL CF

Client Sample ID: 081516 PM
Date Collected: 08/15/16 00:00
Date Received: 08/22/16 08:50

Lab Sample ID: 310-87638-1
Matrix: Solid
Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			138625	08/22/16 12:27	DEM2	TAL CF
Total/NA	Analysis	8082A		1	139607	08/30/16 13:03	BKT	TAL CF
Total/NA	Prep	9023			364732	08/24/16 06:00	CLJ	TAL NSH
Total/NA	Analysis	9023		1	364786	08/24/16 11:03	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9023	9023	Solid	Halogens, Extractable Organic
D240-87		Solid	BTU

Method Summary

Client: Clayton County Recycling
Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-87638 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona IA | Project:

Receipt Information

Date/Time Received: 8.22.16 8:50 | Received By: AW

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☐ Yes ☒ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # ____ of ____

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: J | Correction Factor (°C): 0.0

Uncorrected Temp (°C): 20.6 | Corrected Temp (°C): 20.6

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roys
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 081516 PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTEX	pH		PCB (Leachability)			RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X		X							

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by: Kathryn Rathmann	Date 5-22-16	Time 850	Temperature Upon Receipt:			Laboratory Comments:		

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-7338.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 310-87638-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 9/1/2016			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify); Other:
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: 081516 PM	Project #: 31001320			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
081516 PM (310-87638-1)	8/15/16	Central		Solid			X	X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8-22-16 1508		[signature]	8-23-16 0850	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

Loc: 310
87638

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 8/23/2016 @ 0850

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 2386 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES (NO) ..NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO.(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO.(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO..(NA)

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

8/31/2016

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87638-1

Login Number: 87638
List Number: 1
Creator: Patrick, Kathryn A

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice received.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

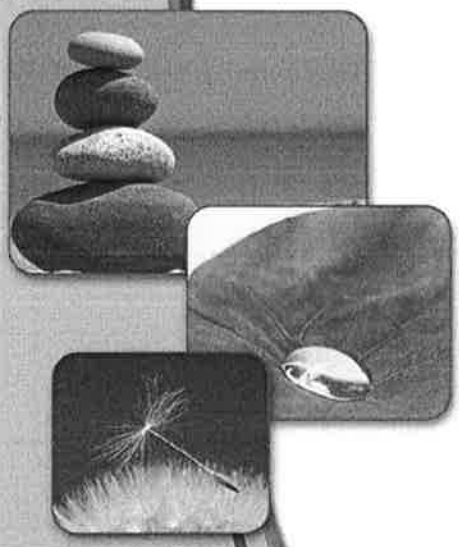
Client: Clayton County Recycling

Job Number: 310-87638-1

Login Number: 87638
List Number: 2
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 08/23/16 03:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with Immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LINKS

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-87650-1
Client Project/Site: 081716 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
8/31/2016 2:36:59 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Job ID: 310-87650-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-87650-1

Comments
No additional comments.

Receipt
The sample was received on 8/22/2016 10:33 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

Except:
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The following sample was diluted due to the presence of an interferent: 081716 PM (310-87650-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 081716 PM (310-87650-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-87650-1	081716 PM	Solid	08/17/16 00:00	08/22/16 10:33

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Client Sample ID: 081716 PM

Lab Sample ID: 310-87650-1

Date Collected: 08/17/16 00:00
Date Received: 08/22/16 10:33

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1221	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1232	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1242	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1248	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1254	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1260	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
PCB-1268	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1
Polychlorinated biphenyls, Total	<3.20		3.20		ug/L		08/24/16 13:58	08/30/16 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:43*	*1*
Tetrachloro-m-xylene	*60*		*10 - 110*	*08/24/16 13:58*	*08/30/16 18:43*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.600		0.600		mg/L		08/25/16 10:00	08/25/16 18:12	2
Barium	<1.00		1.00		mg/L		08/25/16 10:00	08/25/16 18:12	2
Cadmium	**0.0691**		0.0400		mg/L		08/25/16 10:00	08/25/16 18:12	2
Chromium	<0.0400		0.0400		mg/L		08/25/16 10:00	08/25/16 18:12	2
Lead	<0.200		0.200		mg/L		08/25/16 10:00	08/25/16 18:12	2
Selenium	<0.300		0.300		mg/L		08/25/16 10:00	08/25/16 18:12	2
Silver	<0.0400		0.0400		mg/L		08/25/16 10:00	08/25/16 18:12	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		08/24/16 13:32	08/26/16 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**7150**		200		BTU/lb			08/25/16 14:05	1
Flashpoint	**>215**		40.0		Degrees F			08/24/16 15:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	HF	0.1		SU			08/23/16 14:59	1

Client Sample ID: 081716 PM

Lab Sample ID: 310-87650-1

Date Collected: 08/17/16 00:00
Date Received: 08/22/16 10:33

Matrix: Solid
Percent Solids: 50.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1221	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1232	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1242	**1.26**		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1248	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1254	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1260	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1
PCB-1268	<0.968		0.968		mg/Kg	☼	08/22/16 12:27	08/30/16 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	68		10 - 110	08/22/16 12:27	08/30/16 13:57	1
Tetrachloro-m-xylene	70		10 - 110	08/22/16 12:27	08/30/16 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	**2800**		109		mg/Kg	☼	08/24/16 06:00	08/26/16 13:05	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Client Sample ID: 081716 PM
Date Collected: 08/17/16 00:00
Date Received: 08/22/16 10:33

Lab Sample ID: 310-87650-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			138865	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3510C			138961	08/24/16 13:58	DEM1	TAL CF
TCLP	Analysis	8082A		1	139660	08/30/16 18:43	BKT	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	3010A			138928	08/25/16 10:00	JNR	TAL CF
TCLP	Analysis	6010C		2	139219	08/25/16 18:12	OAD	TAL CF
TCLP	Leach	1311			138871	08/23/16 17:10	JTA	TAL CF
TCLP	Prep	7470A			138951	08/24/16 13:32	SAD	TAL CF
TCLP	Analysis	7470A		1	139342	08/26/16 12:38	SAD	TAL CF
Soluble	Leach	DI Leach			138725	08/23/16 09:15	JIS	TAL CF
Soluble	Analysis	9045D		1	138807	08/23/16 14:59	JIS	TAL CF
Total/NA	Analysis	D240-87		1	365538	08/25/16 14:05	BMC	TAL NSH
Total/NA	Analysis	D92		1	139000	08/24/16 15:44	BER	TAL CF

Client Sample ID: 081716 PM
Date Collected: 08/17/16 00:00
Date Received: 08/22/16 10:33

Lab Sample ID: 310-87650-1
Matrix: Solid
Percent Solids: 50.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			138625	08/22/16 12:27	DEM2	TAL CF
Total/NA	Analysis	8082A		1	139607	08/30/16 13:57	BKT	TAL CF
Total/NA	Prep	9023			364732	08/24/16 06:00	CLJ	TAL NSH
Total/NA	Analysis	9023		1	364786	08/26/16 13:05	CLJ	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	007	12-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Iowa	State Program	7	131	04-01-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9023	9023	Solid	Halogens, Extractable Organic
D240-87		Solid	BTU

Method Summary

Client: Clayton County Recycling
Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
9023	Organic Halides, Extractable (EOX)	SW846	TAL NSH
9045D	pH	SW846	TAL CF
D240-87	Heat of Combustion	ASTM	TAL NSH
D92	Flashpoint	ASTM	TAL CF

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

310-87650 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Clayton County Recycling

City/State: Monona IA | Project:

Receipt Information

Date/Time Received: 8.22.16 8:50 | Received By: AW

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☐ Yes	☒ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present?	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☐ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☒ NONE

Temperature Blank? ☐ Yes ☒ No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: J	Correction Factor (°C): 0.0
Uncorrected Temp (°C): 20.6	Corrected Temp (°C): 20.6

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☒ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica INCORPORATED

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Clayton County Recycling
Send Report To: Gina Roy's
Address: 11645 Echo Ave
City/State/Zip Code: Monona IA 52159
Telephone Number: 563-539-4757 Fax: 563-539-4735
Sampled by: (Print Name) Fred Runde
(Signature) Fred Runde

Your PO #: 081716PM
Invoice To:
TA Quote #:
Project Name:
Project Number:
Project Manager: Gina Roys
Proj. Mgr. Telephone: 563-539-4757
Proj. Mgr. Email: gina@ccrecycling.com

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Oil	Analyze For: PCB	TCLP metals	Flashpoint	Chloride	BTU	pH		PCB Leachability		RUSH TAT (Must call ahead!)	Standard TAT	Email Results	Fax Results	Send QC with report
																					X	X	X	X	X	X		X						

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped Via:			Comments:			Shipped Via:		
Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:			Laboratory Comments:		
[signature]	8-22-16	856						

TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Phone (319) 277-2401 Fax (319) 277-2425

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 310-7338.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: shali.brown@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 310-87650-1
Address: 2960 Foster Creighton Drive,	Due Date Requested: 9/1/2016			Preservation Codes:
City: Nashville	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 081716 PM	Project #: 31001320			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D240_87_NP/ Heat of Combustion	9023/9023_Prep EOX	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
081716 PM (310-87650-1)	8/17/16	Central		Solid			X	X	1	

Possible Hazard Identification: Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	8/22/16 1509		Received by:	8-23-16 0850	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

Loc: 310
87650

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 8/23/2016 @ 0850

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 2386 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES (NO) ..NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO..(NA)

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) PN

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...NO..(NA)

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO..(NA)

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES (NO) Was a NCM generated? YES (NO) ..#_____

10

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

8/31/2016

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87650-1

Login Number: 87650
List Number: 1
Creator: Patrick, Kathryn A

List Source: TestAmerica Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice received.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87650-1

Login Number: 87650
List Number: 2
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville
List Creation: 08/23/16 03:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Advanced Disposal

December 12, 2016

Clayton County Recycling
11645 Echo Avenue
Monona, IA 52129-0607

Attn: Ms. Gina Roys, Controller

Re: Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 12/08/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:	Clayton County Recycling
Address of Waste Generated:	11645 Echo Avenue, Monona, IA 52129
Waste Stream:	Fluff, Shredded Auto Residue
Waste Category:	26A
Profile Number:	GRL 07027
Profile Recertification Date:	03/06/17
Waste Disposal Method:	Direct

Please note the special conditions for acceptance are as follows:

1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter
Administrative Assistant

JFW/smr
Attachment

Advanced Disposal Services Glacier Ridge Landfill

Street Address: N7296 Hwy V
City, State, Zip: Horicon, WI 53032
Telephone: 920-387-0987

Advanced Disposal

WASTE PROFILE SHEET

Designated Facility: Glacier Ridge Landfill - WI

Profile #: GRL 07027
Original Submittal: ○ Yes ◉ No
Recertification: ◉ Yes ○ No
One Time Project: ○ Yes ◉ No
Sales Representative: Floyd Leo

A. Generator

Name: Clayton County Recycling
Site Address: 11645 Echo Avenue
City, State, Zip: Monona, IA 52159
Contact: Gina Roys
Phone: (563) 539-4757
Fax: (563) 539-4735

B. Billing

Name: Same As Generator
Site Address:
City, State, Zip:
Contact:
Phone:
Fax:

C. Waste Stream Information

Waste Name: Auto Shredder Fluff
Process Generating Waste: Auto Shredder

Method of Shipment: ○ Bagged ○ Drum ◉ Bulk ○ Other
Estimated Annual Volume: ○ Cubic Yards ○ Tons ○ Other
Frequency: ○ One Time ◉ Daily ○ Weekly ○ Monthly ○ Other
Special Handling:

D. Sample/Analysis Information

Is the representative sample collected to prepare this profile and laboratory analysis collected in accordance with U.S. EPA 40 CFR 261.20 (c) guidelines or equivalent rules? ○ Yes ○ No

Check all that apply:

☐ Sample Submitted with profile ☒ Laboratory Analysis submitted ☐ Safety Data Sheet submitted

Laboratory Name Test America Sample Date 11/16, 17,18/16 Sample I.D. 310-94505-1, 310-94511-1, 310-94517-1

E. Waste Characteristics

Physical State: Solid
Color:
Free Liquids: None
Flash Point: >215
pH: 8.2, 8.6
Total Solids: 100%
Reactive Cyanide: N/A
Reactive Sulfide: N/A

Laboratory analytical and/or SDS including required parameters provided for this profile is attached. ◉ Yes ○ No

Landfill initials: SW

Is this waste a hazardous waste as defined by Federal, State or local laws and regulations?	○ Yes ◉ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	○ Yes ◉ No
Is this waste a characteristically hazardous waste as defined in 40 CFR 261.20 - CFR 261.24?	○ Yes ◉ No
Does this waste or generating process contain regulated concentrations of the following pesticides and/or herbicides; Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-T Silvex as defined in 40 CFR 261.33?	○ Yes ◉ No
Does this waste contain regulated concentrations of listed hazardous wastes defined by 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed solvents?	○ Yes ◉ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD) or any other dioxin as defined in 40 CFR261.31?	○ Yes ◉ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	○ Yes ◉ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	○ Yes ◉ No
Is this waste generated at a Federal Superfund Clean-up Site?	○ Yes ◉ No
Does this waste generate fugitive dust?	○ Yes ◉ No
Is this waste hot or capable of generating heat?	○ Yes ◉ No
Is this waste subject to UST Corrective Action Regulations under CFR 280?	○ Yes ◉ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Furthermore, this waste does not contain nor is derived from the processing, solidification or treatment of naturally occurring radioactive material (NORM) or technologically enhanced naturally occurring radioactive material (TENORM) as defined under any State, local or federal laws.	○ Yes ◉ No
	○ Yes ○ No
	○ Yes ○ No
Other Waste Data or Comments.	

Description of Process and Raw Materials Generating Waste
(use additional sheets as necessary)

F. Generator Certification
To the best of my knowledge, all information submitted in this and all attached documents contain true and accurate descriptions of the waste. This waste is not a hazardous waste as defined by federal, State or local laws and regulations. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Gina Roys
Generator Signature

Controller
Title

Gina Roys
Printed Name

12.7.16
Date

_____
is the agent authorized to sign all manifests at site on my behalf.

G. Landfill Approval

My approval is based upon the laboratory analysis of a representative sample and/or safety data sheets submitted by the generator. All State and/or third party reviews and approvals are obtained and maintained on file. Receipt of waste is in full compliance of internal policies pertaining to waste acceptance and all pertinent permits and host agreement(s).

State and/or third party reviews and approvals obtained and attached to profile?	● Yes ○ No
Is employee training exclusive to this waste stream required for the proper handling and disposal of the material?	○ Yes ● No
Specify what training exclusive to this waste stream is required and for which employees:	
Is employee PPE exceeding the minimum requirements needed for the proper handling and disposal of this waste stream?	○ Yes ● No
Specify what additional PPE is required and to which employees the additional PPE is to be provided:	

Landfill Approval

Landfill Signature

General Manager
Title

Jon P. Walter
Printed Name

12-12-16
Date

Level Of Authority Approval

Approver Signature

Title

Printed Name

Date

Third Party Review

Approver Signature

Approvals
Title

Tim Rahill
Printed Name

12-8-16
Date

Landfill Used for Disposal: Glacier Ridge Landfill

Generator Name: Clayton County Recycling Profile Number: GRL 07027

Waste Name: Auto Shredder Fluff

Advanced Disposal

Certification Checklist

Has completed profile been submitted including the following:	Yes	No	N/A
Generator Name and Address	✓	○	○
Acceptable Waste Name and Process Generating the Waste	✓	○	○
Waste is Non-Hazardous	✓	○	○
Acceptable Composition and Physical Characteristics	✓	○	○
Complete Sample Information and/or SDSs	✓	○	○
Properly Signed by the Generator	✓	○	○
State Approval Required and Granted	○	○	✓

Waste Category: 26A

Recertification Date: 3-6-17

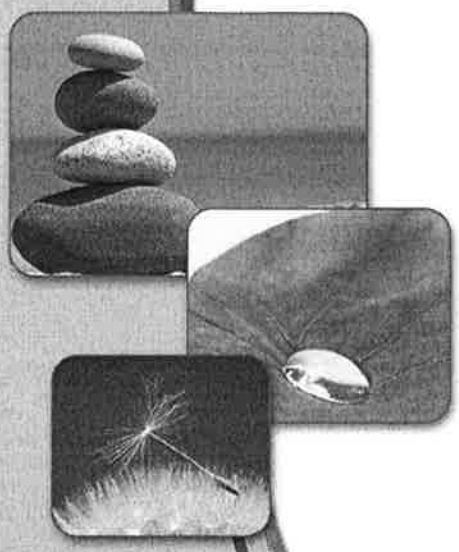
Frequency of Testing:

Disposal Method: B

Parameters to be Tested:

Conditions of Approval:

For Office Use Only



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-94505-1
Client Project/Site: 111616 PM

For:
Clayton County Recycling
11645 Echo Avenue
PO BOX 861
Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by:
12/6/2016 4:09:36 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Clayton County Recycling
Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Job ID: 310-94505-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-94505-1

Comments
No additional comments.

Receipt
The sample was received on 11/22/2016 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.4° C.

Receipt Exceptions
Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) D92: The following samples were collected in an improper container. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550B: The following sample was diluted due to the nature of the sample matrix: 111616 PM (310-94505-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-149852, the temperature 20.3-22.8 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Clayton County Recycling
Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-94505-1	111616 PM	Solid	11/16/16 00:00	11/22/16 09:20

Client Sample ID: 111616 PM
Date Collected: 11/16/16 00:00
Date Received: 11/22/16 09:20

Lab Sample ID: 310-94505-1
Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1221	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1232	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1242	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1248	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1254	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1260	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
PCB-1268	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1
Polychlorinated biphenyls, Total	<3.20		3.20		ug/L		11/29/16 12:30	11/30/16 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*34*		*10 - 119*	*11/29/16 12:30*	*11/30/16 17:46*	*1*
Tetrachloro-m-xylene	*32*		*14 - 110*	*11/29/16 12:30*	*11/30/16 17:46*	*1*

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.300		0.300		mg/L		11/29/16 07:38	11/29/16 19:58	1
Barium	**0.615**		0.500		mg/L		11/29/16 07:38	11/29/16 19:58	1
Cadmium	**0.0918**		0.0200		mg/L		11/29/16 07:38	11/29/16 19:58	1
Chromium	<0.0200		0.0200		mg/L		11/29/16 07:38	11/29/16 19:58	1
Lead	<0.100		0.100		mg/L		11/29/16 07:38	11/29/16 19:58	1
Selenium	<0.150		0.150		mg/L		11/29/16 07:38	11/29/16 19:58	1
Silver	<0.0200		0.0200		mg/L		11/29/16 07:38	11/29/16 19:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		11/29/16 09:09	11/30/16 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	**3180**		200		BTU/lb			12/04/16 19:53	1
Flashpoint	**>215**		40.0		Degrees F			11/25/16 19:59	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**	0.1		SU			11/23/16 10:42	1

Client Sample ID: 111616 PM
Date Collected: 11/16/16 00:00
Date Received: 11/22/16 09:20

Lab Sample ID: 310-94505-1
Matrix: Solid
Percent Solids: 65.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1221	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1232	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1242	**2.90**		0.746		mg/Kg	☼	11/22/16 16:29	12/01/16 11:50	2
PCB-1248	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1254	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1260	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1
PCB-1268	<0.373		0.373		mg/Kg	☼	11/22/16 16:29	11/30/16 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		10 - 143	11/22/16 16:29	11/30/16 12:16	1
Tetrachloro-m-xylene	56		10 - 110	11/22/16 16:29	11/30/16 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	2020		71.2		mg/Kg	☼	11/28/16 15:15	11/29/16 07:00	1

Lab Chronicle

Client: Clayton County Recycling
Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Client Sample ID: 111616 PM — **Lab Sample ID: 310-94505-1**
Date Collected: 11/16/16 00:00 — Matrix: Solid
Date Received: 11/22/16 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			149852	11/28/16 14:30	JTA	TAL CF
TCLP	Prep	3510C			149929	11/29/16 12:30	DEM1	TAL CF
TCLP	Analysis	8082A		1	150105	11/30/16 17:46	BKT	TAL CF
TCLP	Leach	1311			149853	11/28/16 14:30	JTA	TAL CF
TCLP	Prep	3010A			149860	11/29/16 07:38	JNR	TAL CF
TCLP	Analysis	6010C		1	150006	11/29/16 19:58	OAD	TAL CF
TCLP	Leach	1311			149853	11/28/16 14:30	JTA	TAL CF
TCLP	Prep	7470A			149889	11/29/16 09:09	SAD	TAL CF
TCLP	Analysis	7470A		1	150125	11/30/16 11:21	SAD	TAL CF
Soluble	Leach	DI Leach			149495	11/23/16 08:30	SAS	TAL CF
Soluble	Analysis	9045D		1	149543	11/23/16 10:42	SAS	TAL CF
Total/NA	Analysis	D240-87		1	391636	12/04/16 19:53	SD	TAL NSH
Total/NA	Analysis	D92		1	149683	11/25/16 19:59	BER	TAL CF

Client Sample ID: 111616 PM — **Lab Sample ID: 310-94505-1**
Date Collected: 11/16/16 00:00 — Matrix: Solid
Date Received: 11/22/16 09:20 — Percent Solids: 65.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			149440	11/22/16 16:29	AJM	TAL CF
Total/NA	Analysis	8082A		1	150043	11/30/16 12:16	BKT	TAL CF
Total/NA	Prep	3550B			149440	11/22/16 16:29	AJM	TAL CF
Total/NA	Analysis	8082A		2	150196	12/01/16 11:50	BKT	TAL CF
Total/NA	Prep	9023			390413	11/28/16 15:15	NKK	TAL NSH
Total/NA	Analysis	9023		1	390590	11/29/16 07:00	NKK	TAL NSH

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Definitions/Glossary

Client: Clayton County Recycling
Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)